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1261A
VXI CHASSIS

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This equipment contains voltage hazardous to human life and safety, and is capable of inflicting personal injury.

If this instrument is to be powered from the AC line (mains) through an autotransformer, ensure the common connector is connected to the neutral (earthed pole) of the power supply.

Before operating the unit, ensure the conductor (green wire) is connected to the ground (earth) conductor of the power outlet. Do not use a two-conductor extension cord or a three-prong/two-prong adaptor. This will defeat the protective feature of the third conductor in the power cord.

Maintenance and calibration procedures sometimes call for operation of the unit with power applied and protective covers removed. Read the procedures and heed warnings to avoid "live" circuit points.

Before operating this instrument:

1. Ensure the instrument is configured to operate on the voltage at the power source. See Installation Section.

2. Ensure the proper fuse is in place for the power source to operate.

3. Ensure all other devices connected to or in proximity to this instrument are properly grounded or connected to the protective third-wire earth ground.

If the instrument:

- fails to operate satisfactorily
- shows visible damage
- has been stored under unfavorable conditions
- has sustained stress

Do not operate until performance is checked by qualified personnel.

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TABLE OF CONTENTS

Model 1261A

SECTION 1 GENERAL INFORMATION

1.1 Introduction 1-1
1.2 Specifications 1-4
1.3 Configurations 1-5
1.4 Options 1-7

SECTION 2 INSTALLATION

2.1 Introduction 2-1
2.2 Unpacking and Inspection 2-1
2.3 Reshipment Instructions 2-1
2.4 Line Voltage Selection 2-1
2.5 Backplane Daisy Chaining 2-3
2.6 Airflow Directors 2-3
2.6.1 Airflow Director Installation 2-4
2.7 Plug-In Module Installation 2-5
2.8 Engaging An ITA 2-5
2.9 Power-Up Sequence 2-5

SECTION 3 OPERATION

3.1 Introduction 3-1
3.2 Air Inlet Filters 3-1
3.3 1261A Front Panel 3-1
3.4 1261A Rear Panel 3-2
3.5 Option P Intelligent System Monitor 3-3

SECTION 4 MAINTENANCE

4.1 Introduction 4-1
4.2 Trouble Shooting 4-1
4.3 How To Remove Power Supplies 4-3

TABLES

1-1	DC Power Supply Capacity For 1261AM	1-6
1-2	DC Power Supply Capacity For 1261AH	1-7
3-1	1261A Rear Panel Descriptions	3-3
3-2	Fault Messages Displayed	3-5
3-3	Interrogate Command Responses	3-6
3-4	Compliance to IEEE-488.1-1987 Subset Capability	3-7
4-1	DC Output Power Supply Chart	4-3

FIGURES

1.1	1261A Front Panel	1-2
1.2	Model 1261A Glass Box View	1-3
1.3	Model 1261A Mainframe Cooling, Worst Slot Curve	1-5
1.4	Intelligent System Monitor, Front Panel View	1-8
1.5	Model 1261A Chassis and Option Ordering Information	1-10
1.6	1261A Dimensional Outline	1-11
2.1	230 VAC Operation, S400	2-2
2.2	Airflow Directors	2-4
3.1	1261A Front View	3-1
3.2	1261A Rear View	3-2
3.3	Block Diagram of Intelligent System Monitor	3-4

SECTION 1 GENERAL INFORMATION

1.1 Introduction

1.1.1 This Manual provides the information necessary to install and operate the Racal Instruments Model 1261A family of chassis.

1.1.2 The 1261A chassis is a C-Size, VXIbus compatible chassis that conforms fully to VXIbus Specification Revision 1.4, and contains many practical end-user features.

1.1.3 The 1261A chassis is available in two different power configurations, and hosts a selection of many different option assemblies created to meet the needs of any VXIbus based application. The configurations and options will be discussed in detail later in Section 1. In the following paragraphs, a specific chassis in the 1261A family will be referred to as the "1261A" except when necessary to differentiate between the selected configurations.

1.1.4 The 1261A chassis employs a 12-layer backplane to ensure premium VXIbus and VMEbus performance. The chassis provides all power supplies required by the VXIbus specification, a recessed cable tray, and a rear panel that may be customized for easy system integration.

1.1.5 The 1261A chassis uses a pressurized airflow scheme to cool the VXIbus instruments installed into the chassis. The 1261A supports conventional existing rack designs by pulling air through the sides of the chassis, up through removable dust filters, into the VXIbus modules installed, and out through the back of the chassis. This ensures that no hot air is blown into the VXIbus chassis, and that maximum airflow through the VXIbus instruments is maintained.

1.1.6 The 1261A chassis may be fitted with an Interface Connector Assembly (ICA) and receiver mechanism that precisely aligns a pin registered Interface Test Adapter (ITA) with the chassis front panel. This allows all VXIbus instrumentation and switching module connections to be collected into one interface, greatly reducing cabling lengths, the time needed to interface with various Units Under Test (UUTs), and loss of signal integrity. This option is discussed in more detail in Section 1.

1.1.7 The 1261A chassis contains 13 VXIbus slots that may be used for VXIbus compatible instruments. The left most slot in the card cage is dedicated to the VXIbus Slot 0 functions. This normally uses up one of the VXIbus slots in the card cage.

1.1.8 The 1261A chassis is designed to operate at line frequencies from 47 Hz to 63 Hz, and is switch selectable to operate at line voltages of 115 and 230 volts AC.

1.1.9 The VXIbus specification requires that certain backplane signals must be daisy chained from connector to connector along the backplane. The 1261A meets this requirement by using an auto-configuration backplane which eliminates the need to set DIP switches or install jumpers. This implementation allows fast configuration and reconfiguration of the chassis.

1.1.10 Refer to Figure 1-1 for a Front Panel view of the 1261A.

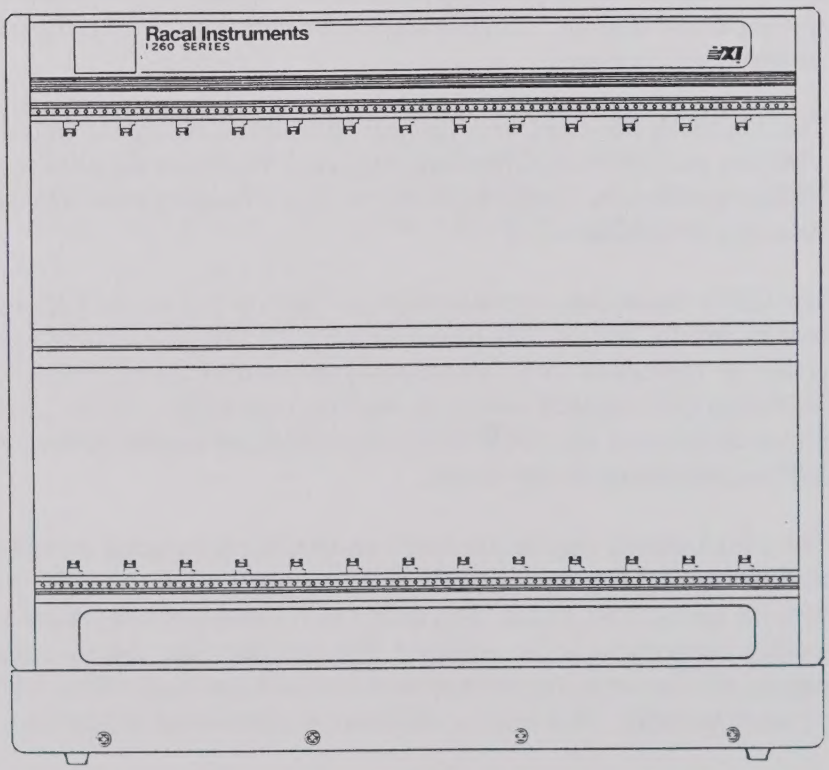


Figure 1-1, 1261A Front Panel

1.1.11 The Models 1261AM and 1261AH are simply the same external chassis with different power supplies installed. They all operate in the same fashion, and the differences are transparent to the user.

1.1.12 Figure 1-2 is a glass box view of the 1261A showing the airflow through the chassis, and the position of the VXIbus compatible power supplies.

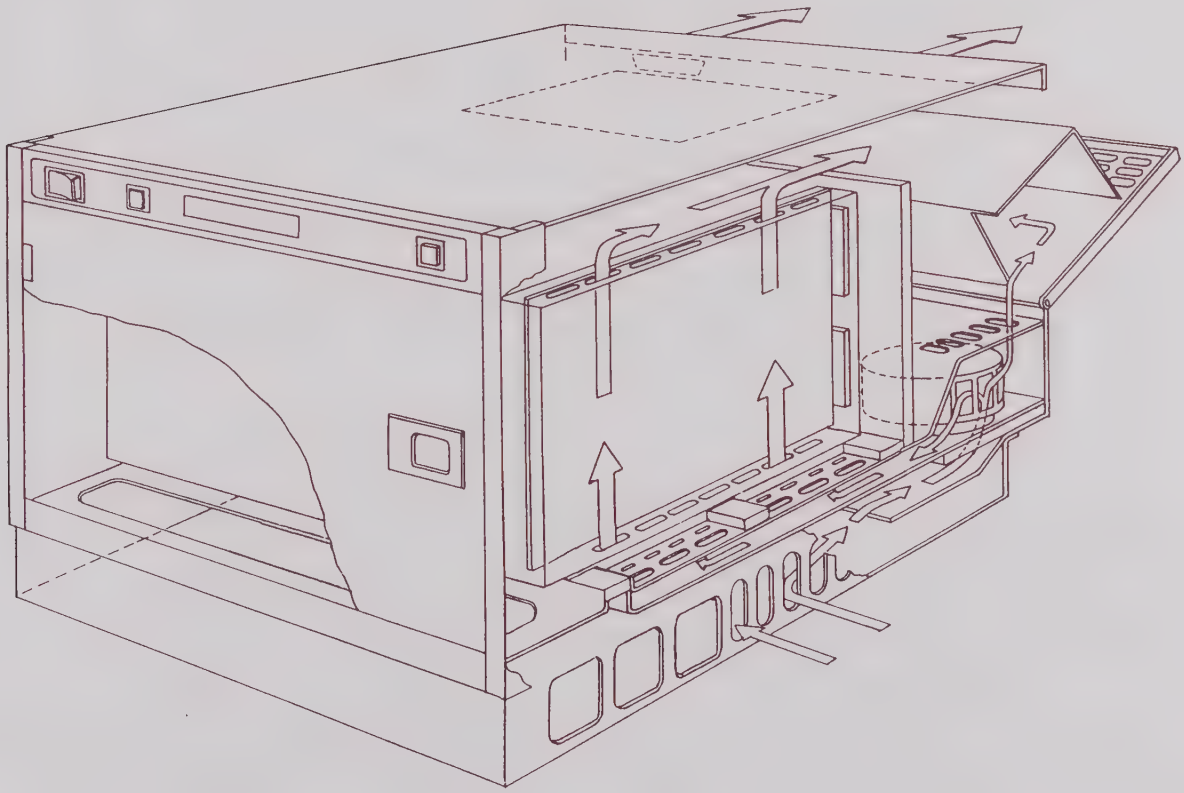


Figure 1-2, Model 1261A Glass Box View

1.2 Specifications

Power Supply Input	115 VAC +/- 10%, 230 VAC +/-10% 47 to 63Hz (switch selectable)
Maximum Input Power	1400 VA
Protection	All power supplies are protected against over-voltage, over-current, and over-temperature faults
Cooling	70 Watts/Slot, 10°C rise
Temperature Range	
Operating	0°C to +55°C
Storage	-40°C to +70°C
Mainframe Size	C-size, 13 slots
SUMBUS Bandwidth	125 MHz
Backplane Crosstalk	(Worst case data line to SUMBUS): -54dB
Noise Floor (1 Hz bandwidth)	-100 dB
Dimensions	399.3 H x 441.4 W x 678.1 D mm (15.72 H x 17.38 W x 26.7 D inches) Cable tray recessed to 3" deep
Environmental Requirements	Designed to meet MIL-T-28800, Type III, Class 5, Style F
Mechanical Requirements	In conformance with VXIbus Specifications, Revision 1.2, 1.3 and 1.4
MTTR	<30 Minutes
Weight	
1261AM	Net 28.1 kg (62 lb)
1261AH	Net 30.8 kg (68 lb)

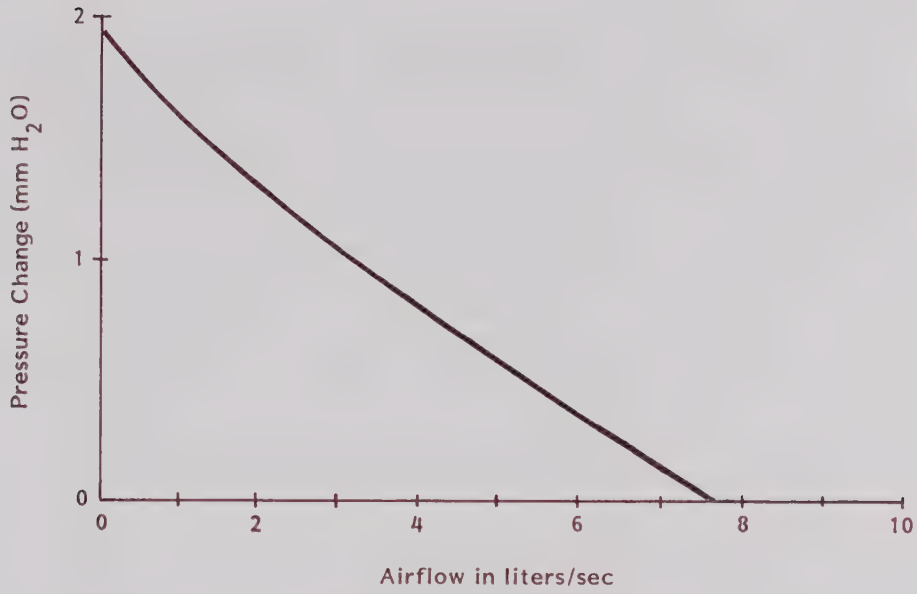


Figure 1-3, Model 1261A Mainframe Cooling, Worst Slot Curve

1.2.1 Figure 1-3 shows the mainframe cooling worst slot curve.

1.2.2 Use the graph to determine whether or not the chassis will provide adequate cooling for each module. To use the graph, find the module operating point (airflow versus pressure) and make sure this point falls below the worst slot curve.

1.3 Configurations

1.3.1 The 1261A was designed to give maximum flexibility to system designers by allowing flexible power supply versus cost trade-offs to be implemented. A family of VXIbus mainframes was created to allow this kind of flexibility. There are two different chassis configurations in the 1261A family. The 1261AM, a medium power chassis, combines higher power and cost efficiency into one package suitable for most VXIbus applications. The 1261AH is the highest power mainframe in the series.

1.3.2 Different configurations are specified when ordering the 1261A, and are shipped with the proper power supplies installed and ready to use upon receipt of the unit by the customer.

1.3.3 The 1261AM contains two power supplies. One power supply provides +12V, +24V, -5.2V, -12V and is rated at 250W. The second power supply provides +5V, -2V, -24V and is also rated at 250W. Each power supply should not be allowed to exceed it's power rating. Table 1-1 below shows the maximum current available for each power supply rail in the 1261AM chassis.

Table 1-1, DC Power Supply Capacity For 1261AM

		+24	+12	+5	-5.2	-2	-12	-24
Dynamic Current (I_{MD})	**150mV Ripple/ Noise**	2.5A	2.0A	7.5A	7.5A	2.2A	2A	2.5A
	50mV Ripple/ Noise	1.0	0.7A	3.0A	2.7A	0.8A	0.7A	1.0
Peak Current (I_{MP})		3A	5A	45A	45A	5A	4.5A	5A

1.3.5 The 1261AH contains two power supplies. One power supply provides +5V, +12V, +24V, -12V and is rated at 400W. The second power supply provides -2V, -5.2V, -24V and is also rated at 400W. Each power supply should not be allowed to exceed it's power rating. Table 1-2 shows the maximum current available for each power supply rail in the 1261AH chassis.

Table 1-2, DC Power Supply Capacity For 1261AH

		+24	+12	+5	-5.2	-2	-12	-24
Dynamic Current (I_{MD})	**150mV Ripple/ Noise**	6.0A	5.0A	11.0A	11.0A	3.5A	5.0A	6.0A
	50mV Ripple/ Noise	3.0	2A	5A	5A	1.3A	2A	3
Peak Current (I_{MP})		6A	12A	60A	60A	10A	12A	6A

1.4 Options

1.4.1 Many options have been implemented to enhance the Racal Instruments 1261A family of VXIbus mainframes. All of the options described below may be used with either 1261A chassis configuration. The options include application specific front panels, cable tray extensions, rack slides, smoked glass front door, an intelligent system monitor, and a 115 VAC to 230 VAC conversion kit. The conversion kit contains a generic AC line cord and the proper fuse for the unit.

1.4.2 All options are ordered separately from the mainframe. Most options come with their own individual installation kit, including instructions. The end user may elect to have most selected options installed at the factory or in the field. The Intelligent System Monitor is required to be factory installed.

1.4.2.1 Option 14A Front Door

1.4.2.1.1 The front door option, if installed, provides some protection to the cables being launched from the front of the VXIbus modules. It is hinged and made of tinted plexiglass. It is latched when closed but requires no special tools to reopen.

1.4.2.2 Option P Intelligent System Monitor

1.4.2.2.1 The function of this option is to monitor the mainframe's airflow and temperature for safe operating limits, in addition to monitoring the system's power supplies for operation within set tolerances. It alerts the operator of a fault in three ways: (1), by sending a Service ReQuest (SRQ) out over the IEEE-STD-488 bus; (2), by sounding an audio alarm (may be disabled); and (3), displaying an error message on a front panel 16-character display.

1.4.2.2.2 The intelligent system monitor option adds a piezoelectric element, a latching pushbutton switch, a momentary contact switch and a 16-character LCD display to the top, front panel of the mainframe. The option has an IEEE-STD-488 (and address switch) connector located on the rear of the chassis, and appropriately located airflow and temperature sensors. The electronics to drive the front panel and run system monitoring functions are located on top of the chassis power supply chamber. A front view of the panel is shown in Figure 1-4.

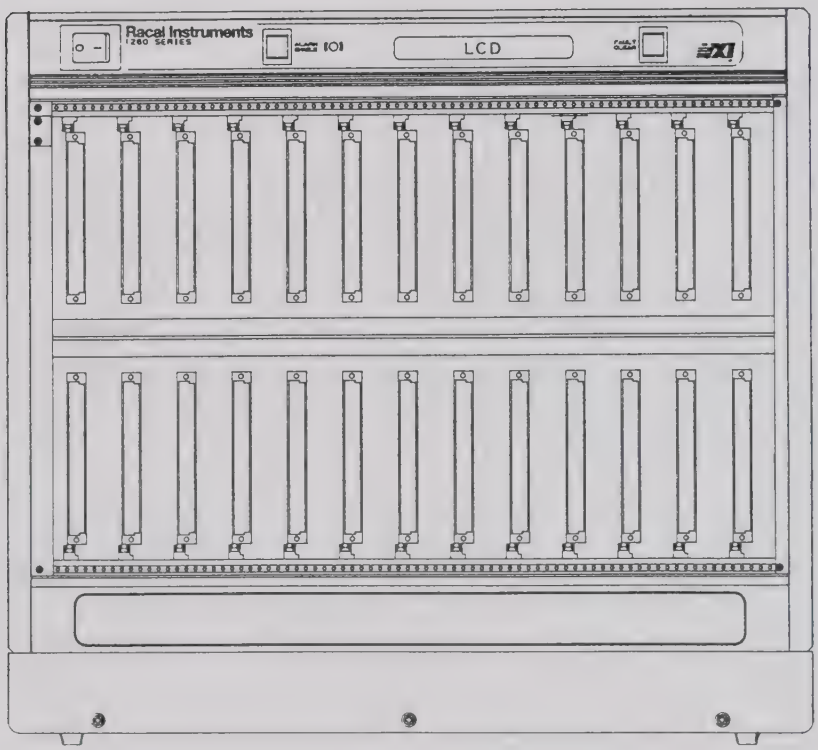


Figure 1-4, Intelligent System Monitor, Front Panel View

1.4.2.3 Option 71 115/230 VAC Conversion

1.4.2.3.1 This option supplies the necessary hardware to allow the chassis to be powered from a 230VAC 50Hz source. It contains a 5 and an 8 amp fuse and generic line cord for use in countries where 230 VAC is the standard line voltage available. (See Section 2.4)

1.4.2.4 Option ASFP-1,-2 (Application Specific Front Panel)

1.4.2.4.2 These options include a hinged blank panel over the front of the VXI chassis. Connectors or a test fixture can be added to the Option ASFP and ASFP-1 panels to meet specific user requirements. Raised versions (Option ASFP-1 and -2) are also available for applications when bulky connector cabling is anticipated. The -1 is a solid panel; the -2 is a raised panel with a plexiglass window serving as a door where bulky connectors are used on the VXI modules. These options are shown on Pages 5-66 through 5-68.

1.4.2.5 Additional 1261A Options

1.4.2.5.1 Option 11 Cable Trays, Option 60 Rack Mount Ear Kits and Option 65 Rack Slide Kits are also available. These option kits include all the mounting hardware. See Figure 1.5 for description and illustration of these options.

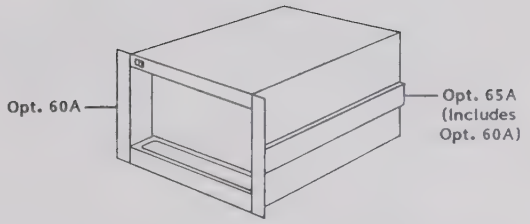
CAUTION

Before inserting the 1261A with the mounted rail onto the slide mounted in the rack, determine if any adjustment is necessary to properly mate these parts and adjust as required. A dimensional outline of the 1261A is shown in Figure 1.6.

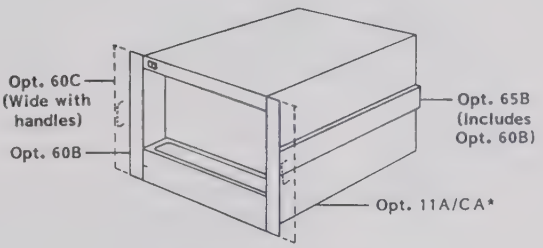
ORDERING INFORMATION		
Model No.	**Description**	**Part**
1261AM	Medium Power VXIbus Chassis	407039
1261AH	High Power VXIbus Chassis	407040
1261AX	High Power VXIbus Chassis (includes rack slides - Option 65A, and door Option 14A)	407161
ASFP	Blank, Hinged, Application-Specific Front Panel	407162
ASFP-1	Blank, Hinged, Application Specific Front Panel - 1.5 inch	407244
ASFP-2	Hinged, Application Specific Front Panel with Smoked Window -1.5 inch	407365
OPT. 14A	Front Door	407045
OPT. 15A	Cut Outs on Top of Chassis	TBD
OPT. P	Intelligent Panel	407098
OPT. 60A	Rack Mount Ears	407156
OPT. 65A	Rack Slides (includes OPT. 60A)	407044
OPT. 71	230V AC Operation	407095
404836	Blanking Plates for all VXI Chassis, 1-slot	404836

If you need a deep cable tray, the following options apply:

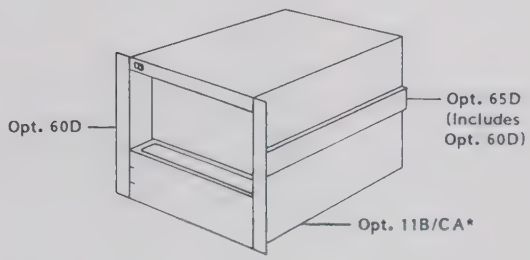
OPT. 11A/CA	2U (3 1/2") Cable Tray with Access Holes	407230
OPT. 60B	Rack Mount Ears for Chassis with Option 11A/CA	407212
OPT. 60C	Wide Rack Mount Ears w/Handles for Chassis with Opt. 11A/CA	407175
OPT. 65B	Rack Slides (includes OPT. 60B) for Chassis with OPT. 11A/ CA	407214
OPT. 11B/CA	3U (5 1/2") Cable Tray w/Access Holes	407231
OPT. 60D	Rack Mount Ears for Chassis w/OPT 11B/CA	407213
OPT. 65D	Rack Slides (includes OPT. 60D) for Chassis w/OPT. 11B/CA	407215



Standard 1261A has 1U (1-3/4") cable tray (CA*) with access holes



1261A with 2U (3-1/2") cable tray



1261A with 3U (5-1/4") cable tray

*(CA)
Cable tray showing Access Holes

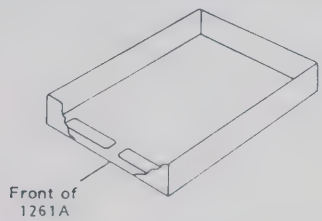


Figure 1.5, Model 1261A Chassis and Option Ordering Information

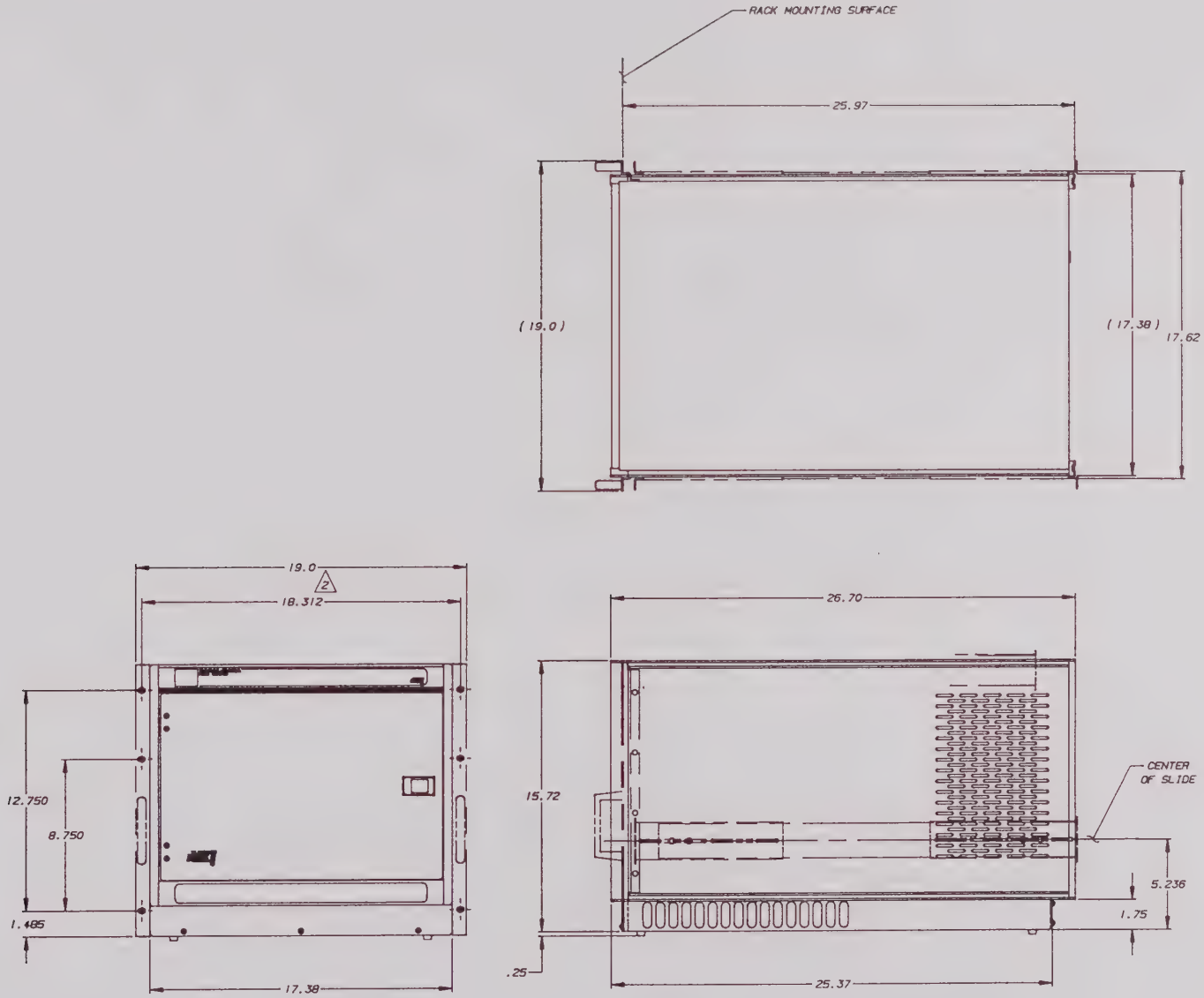


Figure 1-6, 1261A Dimensional Outline

SECTION 2 INSTALLATION

2.1 Introduction

2.1.1 This section of the manual provides the information necessary to correctly connect the 1261A to the local AC supply.

2.2 Unpacking and Inspection

2.2.1 Before unpacking the unit, check the exterior of the shipping carton for any signs of damage. All irregularities should be noted on the shipping bill. Remove the instrument from its carton, preserving the factory packaging as much as possible. Inspect the unit for any defect or damage. Immediately notify the carrier if any damage is apparent. Have a qualified person check the instrument for safety before use.

2.3 Reshipment Instructions

2.3.1 Use the original packing when returning the unit to Racal Instruments for servicing. The original shipping carton and the instrument's plastic foam will provide the necessary support for safe reshipment. If the original packing is unavailable, wrap the unit in plastic sheeting and use plastic spray foam to surround and protect the instrument. Reship in either the original or a new shipping carton.

2.4 Line Voltage Selection

CAUTION

DO NOT change the line voltage selection switch on the rear of the 1261A while power is applied to the chassis. Dangerous line voltages are employed in this instrument. Contact may result in harm to the operator. Changing the voltage selection switch with power supplied to the chassis may also result in damage to the chassis itself.

2.4.1 To select the proper line voltage for the 1261A use the following procedure:

1) Power down the chassis and remove the line input cord.

2) Select the proper setting for switch S400 located on the rear of the chassis; either 115 or 230 indicating 115 VAC or 230 VAC line operation.

3) Select and install the proper fuse into F400 located on the rear of the chassis. For the 1261AH, a 15 ampere slow-blow fuse should be used for 110VAC operation, and an 8 ampere slow-blow fuse should be used for 230VAC operation.

For the 1261AM, a 10 ampere slow-blow fuse should be used for 110VAC operation, and a 5 ampere slow-blow fuse should be used for 230VAC operation.

The 1261AH mainframe comes equipped with a 15 ampere fuse. The 1261AM comes equipped with a 10 ampere fuse. The Option 71 (115/230VAC Conversion Kit) contains both a 5 amp and an 8 amp fuse for the 230 VAC configuration.

CHASSIS	A.C. VOLTAGE	SLOW-BLOW FUSE RATING
1261AH	110V	15A
1261AH	230V	8A
1261AM	110V	10A
1261AM	230V	5A

4) The choice of line cord is dependent on the AC line voltage available. The 1261A is supplied with a standard 110 VAC line cord, and the Option 71 comes with a "generic" line cord.

Figure 2-1, 230 VAC Operation, S400

2.5 Backplane Daisy Chaining

2.5.1 The VXIbus specification requires the IACK and BUSGRANT 0-3 lines be daisy chained from slot to slot. This is accomplished in the Racal Instruments Model 1261A family of VXIbus mainframes with the use of auto-configuration P1 connectors installed on the backplane.

2.5.2 The backplane normally connects the IACK and BUSGRANT 0-3 signals from slot to slot. When a module is inserted into the P1 connector, these "bypass" connections are opened, and the signals are properly daisy chained through the module.

2.5.3 Special concern must be given to modules occupying more than one slot to ensure the IACK and BUSGRANT 0-3 signals are handled properly. This is not an issue with any double slot Racal Instruments VXIbus module.

2.5.4 The backplane daisy chaining/bypassing is handled automatically by the auto-configuration connectors. However, there is need for concern with older-design modules that do not properly handle the internal passing through of these signals. In this case, the only alternative is to modify the module. Racal Instruments 1260 Series switching modules without Option 01 can be reworked to pass the IACK and BUSGRANT 0-3 by installing a variant of the LBUS jumper onto the module's J3 connector. The Racal Instruments part number for this "BUS GRANT JUMPER PCB" is 401951-003.

2.6 AIRFLOW DIRECTORS

In order to improve cooling of used slots in the VXI chassis, a limited number of airflow directors, P/N 456271, may be installed at empty slot locations to redirect otherwise wasted airflow.

CAUTION

To maintain a balanced airflow throughout the system when using airflow directors, do not cover more than six empty slots at any time. Use a maximum of three directors in Slots 0 through 6 and three in Slots 7 through 13.

2.6.1 Airflow Director Installation

1. Facing the front of the VXI chassis, hold the airflow director by the front end where the "Racal" logo appears.

2. Select the slot to be covered by the director (refer to Figure 2.2), and place the hook at the rear of the director into the rectangular hole at the rear of the cardguide (1). Slight downward pressure on top of the director (with the other hand) at the rear may be required to engage the hook into the cardguide.

3. Flex the director upwards at the front, maintaining pressure at the rear, and lower the center hook of the director into the center rectangular hole in the cardguide (2).

4. Press down and back to allow both center and rear hook to engage fully into the cardguide.

5. Lower the front of the director and allow the snap-in hook to rest on the cardguide (3).

6. With a slotted screwdriver or similar flat-bladed tool, depress the spring hook (4) at a slight downward angle, applying light pressure to the logo area. This will cause the snap-hook to firmly seat the director into place.

7. To remove the airflow director, depress the snap-in hook (4) from the front with a flat-bladed tool. This will unlatch the hook and allow removal from the cardguide at the front end.

8. Pull forward to release the fixed hooks at the center and rear.

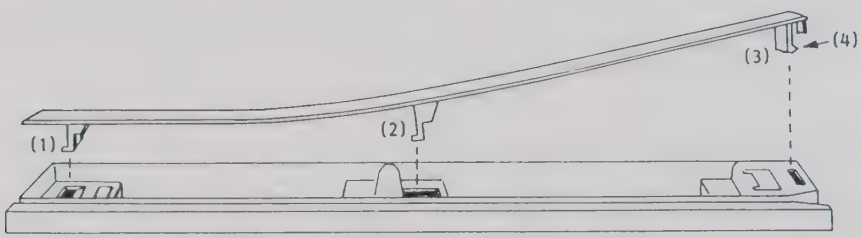


Figure 2.2, Airflow Director

2.7 Plug-In Module Installation

2.7.1 When installing multiple VXIbus modules, it is important to fully secure each module into place before installing any adjacent modules. Modules are secured by tightening the upper and lower screws until the module cannot move. Fully securing each module simplifies installation in those cases where modules contain external RF shielding spring "fingers". The fingers sometimes exert a force against adjacent modules which can cause installation difficulties unless each module is secured before the next one is installed.

2.8 Engaging An ITA

2.8.1 If your 1261A comes with a receiver mechanism, use care in engaging and disengaging the mechanism. If the receiver handle does not travel smoothly, STOP immediately and investigate the cause of the trouble.

2.8.2 When removing (or installing) any VXIbus module allow the receiver mechanism to swing down unhindered and remove (or install) the module as necessary.

2.9 Power Up Sequence

2.9.1 To power up the 1261A, use the following procedure:

1) Install all VXIbus modules that are to be used in the chassis prior to applying power. Ensure all VXIbus defined switch settings on the modules are as required, and in accordance with the manufacturers instructions.

2) Install blanking plates into unpopulated VXI slots.

RI P/N 404836, 1-slot VXI blanking plate

3) Connect a line input cord to the line input receptacle on the rear panel of the chassis.

4) Ensure the line input voltage selected is in agreement with the local line voltage. Set the line switch in the top left hand corner of the chassis front panel to 1.

3.1 Introduction

3.1.1 There are no operating instructions required for the 1261A VXIbus mainframe. After the chassis is powered up, operation is completely transparent to the operator. This section is limited to a description of the controls and connectors fitted to the 1261A front and rear panels.

3.2 Air Inlet Filters

3.2.1 Two air filters are located on the bottom rear panel of the 1261A. They filter air coming into the chassis before it reaches any moving parts or electrical components.

3.2.2 The two filters are made of washable materials. A maximum of six (6) months between cleanings is recommended. Depending upon the amount of usage, the filters may have to be cleaned more frequently. The filters should be removed and cleaned with a mild detergent and allowed to dry before re-installation into the chassis.

3.3 1261A Front Panel

3.3.1 To apply power to the chassis and VXIbus modules installed, depress the side of the AC line switch marked "1". The front panel and line switch are shown in Figure 3-1.

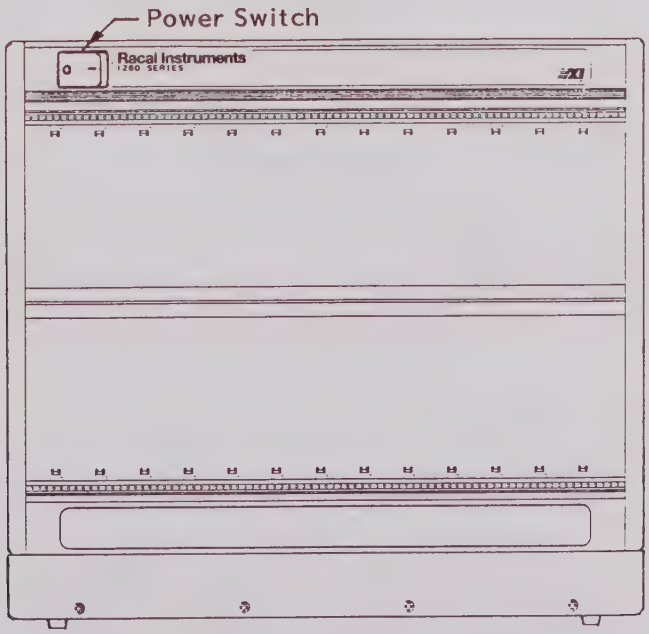


Figure 3-1, 1261A Front View

3.4 1261A Rear Panel

3.4.1 Refer to Figure 3-2 for a rear view of the 1261A chassis, and to Table 3-1 for descriptions of these rear panel features.

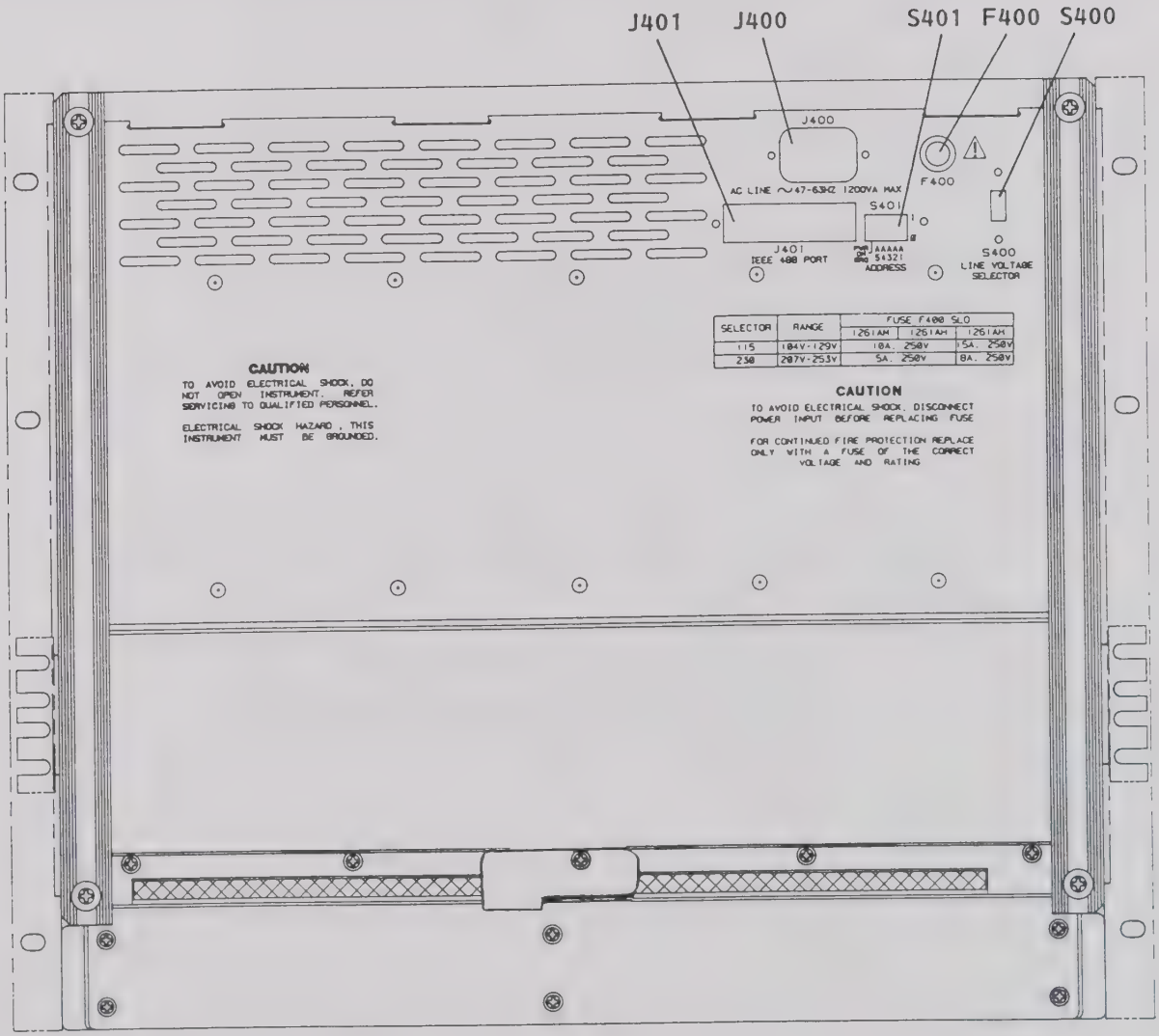


Figure 3-2, 1261A Rear View

Table 3-1, 1261A Rear Panel Descriptions

Reference	Description
J400	AC Line input receptacle. Accepts 115 or 230 VAC line input connector from AC supply to power the chassis.
J401	IEEE-STD-488 port. Used in conjunction with Option P. See Section 3.5.
S400	115/230 VAC configuration switch. The setting of this switch should comply with the AC line voltage being used to power the unit. See Section 2.4.
S401	GPIB address switch. Sets the GPIB address of the chassis. Also disables the power-on SRQ function. Used in conjunction with Option P. See Section 3.5.
S400	Fuseholder. Contains the AC line input fuse, value 10 A slow-blow for 115 VAC operation, or a 5 or 8A slow-blow for 230 VAC operation. (See Section 2.4.)
	Air inlet filters. Two filters are located on the bottom rear of the chassis.

3.5 Option P Intelligent System Monitor

3.5.1 A functional block diagram of the Intelligent System Monitor option is shown in Figure 3-3. The core of the option is a 6805 micro-controller. The micro-controller interfaces to the LCD and the monitoring electronics via an 8-bit parallel interface. The monitoring functions are executed using window comparators to monitor the seven system voltages, an airflow sensor in the chassis intake, and a temperature sensor in the exhaust.

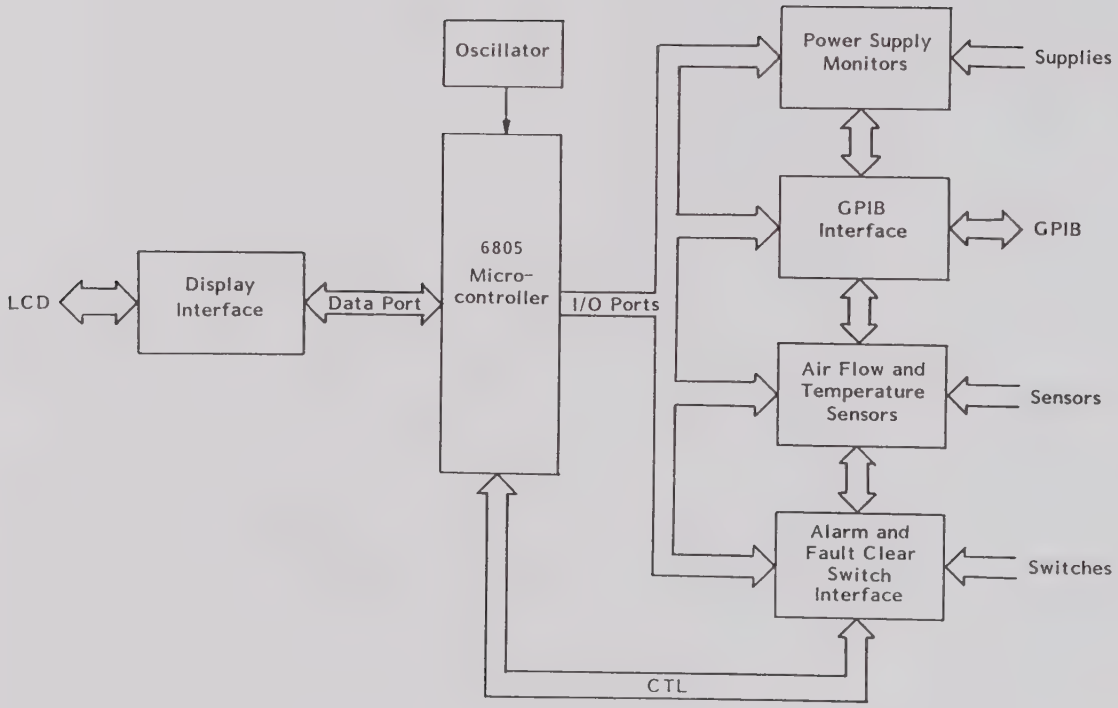


Figure 3-3, Block Diagram of Intelligent System Monitor

3.5.2 The Intelligent System Monitor option operates in two modes; "monitor mode" and "fault mode" as described below.

3.5.2.1 Monitor Mode

3.5.2.1.1 The normal power-up mode for the controller will be Monitor Mode. In this mode, the LCD will display "SYSTEM OK", and Alarm Status messages. On power-up, the alarm enabled/disabled message is displayed for several seconds to allow the user to determine the audio alarm state. After this time, the "SYSTEM OK" message is displayed until the alarm enable switch is changed, or a fault occurs. A blinking cursor in the leftmost character of the display indicates the

monitor is functioning while in monitor mode. The alarm status message is displayed for several seconds whenever the "ALARM ENABLE" switch is pressed on the front panel. The microprocessor will continuously poll the seven power supply voltages, the airflow sensor and the temperature sensor. If consecutive measurements are found to be out of tolerance, the controller will enter the Fault Mode.

3.5.2.2 Fault Mode

3.5.2.2.1 Upon entering Fault Mode, the micro-controller will blank the LCD display. The controller will send an SRQ to the GPIB controller and cause the display to indicate the nature of the fault detected. The controller may also cause an audible warning to be emitted if enabled via the front panel Alarm Enable switch.

3.5.2.2.2 The micro-controller will exit Fault Mode and enter Monitor Mode when it detects the Fault Clear switch has been actuated, or when a GPIB Device CLear (DCL or SDC) command is received over the IEEE-488 bus. Normal operation will begin until another fault is detected. Unless the physical cause of the condition creating the fault is removed, the system monitor will continuously return to the Fault Mode.

3.5.2.2.3 Table 3-2 lists the supported fault messages.

Table 3-2, Fault Messages Displayed

FLT: +24V OVER
FLT: +24V UNDER
FLT: +12V OVER
FLT: +12V UNDER

FLT: +5V OVER
FLT: +5V UNDER
FLT: -2V OVER
FLT: -2V UNDER

FLT: -5V OVER
FLT: -5V UNDER
FLT: -12V OVER
FLT: -12V UNDER

FLT: -24V OVER
FLT: -24V UNDER
FLT: OVER TEMP
FLT: AIR FLOW

3.5.2.2.4 An external computer may query the intelligent system monitor in either mode via the GPIB interface. In response to an inquiry, the micro-controller responds with an ASCII string. The string consists of a SPace (SP), six status response bytes, and a Carriage Return/Line Feed (CR/LF).

3.5.2.2.5 The binary bit mapping of the ASCII status response bytes is shown in Table 3-3 below. This table allows the user to interpret the ASCII status response data to determine the systems fault status. A set bit indicates a fault on the corresponding supply or sensor.

Table 3-3, Interrogate Command Responses

ASCII Response Byte	Binary Bit Mapping	Meaning If Bit = 1
1	0	+24V Overvoltage
	1	+24V Undervoltage
	2	Always 1
	3	Always 0
2	0	+5V Overvoltage
	1	+5V Undervoltage
	2	+12V Overvoltage
	3	+12V Undervoltage
3	0	-12V Overvoltage
	1	-12V Undervoltage
	2	Always 1
	3	Always 0
4	0	-2V Overvoltage
	1	-2V Undervoltage
	2	-5V Overvoltage
	3	-5V Undervoltage
5	0	Always 0
	1	Always 0
	2	Always 1
	3	Always 0
6	0	-24V Overvoltage
	1	-24V Undervoltage
	2	Air Flow Fault
	3	Over Temperature

3.5.2.2.6 The GPIB capability of the Option P is summarized below in Table 3-4. The rear panel GPIB switch (S401) allows the user to select the GPIB address and enable "Power On" SRQ generation. The Power On SRQ feature is enabled when the switch is set to the "1" position. This feature can be used to warn the GPIB controller that the chassis has been powered-up. After a Power-On SRQ has been generated, the micro-controller responds to a serial poll with the status byte "C0"(hex). Subsequent polls will result in the micro-controller responding with status byte "00" (hex). When a system fault causes an SRQ, the micro-controller sends the status byte "48" (hex) during a serial poll.

Table 3-4, Compliance to IEEE-488.1-1987 Subset Capability

COMPLIANCE TO IEE-488.1-1987 SUBSET CAPABILITY		
GPIB SUBSET	**DESCRIPTION**	**APPLICABLE CAPABILITY**
SH1	Source Handshake	Complete Capability
AH1	Acceptor Handshake	Complete Capability
T6	Talker	1) Basic Talker 2) Serial Poll 3) Unaddress if MLA
L4	Listener	Complete Except Listen Only 1) Basic Listener 2) Unaddress if MTA
SR1	Service Request	Complete Capability
RL0	Remote/Local	No Capability
PP0	Parallel Poll	No Capability
DC1	Device Clear	Complete Capability 1) DCL-Device Clear 2) SDC-Selected Device Clear
DT0	Device Trigger	Complete Capability GET-Group Execute Trigger
C0	Controller	No Capability
E1	Open Collector Bus Drivers	

SECTION 4 MAINTENANCE

4.1 Introduction

The 1261A family of chassis are VXIbus compatible mainframes that comply with Revision 1.3 of the VXIbus Specification. The mainframes convert international AC power into the seven specified VXIbus required DC outputs, and distribute them across the optimized 12-layer backplane.

The mainframes include an AC line filter/receptacle, AC power switch, slow-blow fuse, printed circuit board (PCB) assembly to supply the VXIbus required AC_Fail* and Sys_Fail* signals, and two impeller type fans.

The AC line is routed through the AC line filter/receptacle assembly to the front panel illuminated ON/OFF switch. It is then routed though the fuse and on to two power supplies located in the rear of the chassis. The power supplies are also fused internally, and then distributed to the two impellers.

4.2 Trouble-Shooting

The following is a guide in diagnosing and repairing the 1261A family of mainframes.

NOTE

Only qualified personnel with sufficient experience maintaining electrical equipment should repair this electrical device.

The front panel switch is not illuminated -

- Ensure the unit is plugged into a live outlet.
- Unplug the chassis and check the fuse at the rear of the chassis.
- Unplug the chassis and check the wiring to the front panel switch.

Possible Repairs -

- Replace the fuse with proper value for the line voltage being used.
- Replace the front panel switch.

The air flow has stopped -

- Check that air filters have been properly cleaned.

- Check for blockages in the cable tray that may be restricting the air flow.

- Ensure the AC line selector switch at the rear of the chassis is in the proper state for the line voltage being used.

- Check the wiring to the impellers.

Possible Repairs -

- Replace the AC line selector switch.

- Replace the impeller/s.

The VXIbus modules installed do not function properly; i.e., front panel LED's do not light; modules appear dead or non-communicative -

- Ensure the modules are seated properly and engaged fully into the backplane.

- Check the seven DC outputs in an unused slot while the ON/OFF switch is in the ON position.

- Check the AC_Fail* and Sys_Fail* lines, and ensure they are in the proper state while the system is running.

Possible Repairs -

- Inspect the wiring on the rear of the mainframes' backplane.

- Check J31 on the rear top corner of the backplane.

- Check all of the connectors interfacing to the Back Plane Reset Assembly located in the rear of the chassis, and ensure they are seated properly.

- Using Table 4.1, replace the internal power supply fuse after identifying which power supply has failed. (See Section 4.3 How To Remove Power Supplies.)

- Using Table 4.1, replace the power supply after identifying which unit has failed. (See Section 4.3 How To Remove Power Supplies.)

Table 4.1 is a table showing which power supply unit supplies the mainframes' backplane with the correct DC voltage.

Table 4.1, DC Output Power Supply Chart

DC OUTPUT POWER SUPPLY							
CHASSIS	**+24V**	**+12V**	**+5V**	**-2V**	**-5.2V**	**-12V**	**-24V**
1261AM							
PS1			X	X			X
PS2	X	X			X	X	
1261AH							
PS1	X	X	X			X	
PS2				X	X		X

4.3 How To Remove Power Supplies

The following steps should be used to remove, replace, and install the power supply units located in the rear of the 1261A family of chassis. Since the chassis may be configured in many different ways, ignore the steps that do not apply to your unit.

1. Remove the AC line cord from the unit.

2. Remove the rear side extrusions on either side of the rear of the chassis. They are a darker gray than the main chassis.

3. Remove both side covers by sliding them to the rear of the chassis.

4. Remove the top cover by sliding it to the rear of the chassis.

5. Remove the top two screws on either side of the chassis that retain the swing down power supply drawer. **DO NOT** remove the bottom third screw from either side of the drawer. Loosen the two lower screws a quarter turn. The drawer will rotate around these two screws using them as a hinge. Swing the drawer down to expose the wiring, and support the drawer at a 90° angle.

6. **LABEL** all wires before removing them from the power supplies. Either or both power supplies can be easily removed by removing all the wires attached to both ends of the power supply, removing the four screws that retain that supply in the power supply drawer, and sliding the unit out of the drawer. Since the 1261A can be shipped in many different configurations, **LABEL** each wire and where they go before removing them. This will eliminate making wrong connections when replacing the power supply.

7. Remove the wires from the supply.

8. Remove the four power supply retaining screws.

9. Slide the unit out of the power supply drawer.

10. Replace the power supply with the same part-numbered unit. See the chassis enclosure drawing for the reference designator of the supply that has been removed. See the parts list for the Racal Instruments part number that corresponds to PS1 or PS2.

11. Re-assemble the mainframe using the above instructions. Use of a VARIAC for the initial powering-up of the chassis is recommended.

SECTION 5 DRAWINGS

407039	Chassis Assembly, 1261AM (Medium Power)	5-2
407040	Chassis Assembly, 1261AH (High Power)	5-10
407075	Enclosure Assembly, 1261A	5-17
407037-004	Chassis Assembly, 1261A	5-23
401916-001	PCB Assembly, VXI Backplane	5-30
431916	Schematic, VXI Backplane	5-31
404981	PCB Assembly, Power Monitor	5-44
432192	Schematic, Power Monitor	5-45

Options

407045	Option 14A, Front Door	5-46
407098	Option P, Intelligent System Monitor	5-47
407098-001	Display PCB Assy	5-51
407098-002	Display Cable Assy	5-52
407098-003	Reset Switch Cable Assy	5-53
407098-004	Alarm Switch Cable Assy	5-54
407098-005	Buzzer Cable Assy	5-55
407098-006	Air Sensor Switch Cable Assy	5-56
407098-007	Power Cable Assy	5-57
405061	PCB Assembly, System Monitor	5-58
435061	Schematic, System Monitor	5-59
407162	Option ASFP, Blank Front Panel	5-66
407244	Option ASFP-1, Raised Blank Front Panel	5-67
407365	Option ASFP-2, Raised Front Panel w/Window	5-68

NOTES:

1. ASSEMBLY AND MANUFACTURING PRACTICES:
   A. FOR WIRE AND CABLE ROUTING, ANY CHOSEN PATH WHICH IS NON-INJURIOUS TO THE CONDUCTORS, CONNECTORS OR ADJACENT ASSEMBLIES IS ACCEPTABLE.
   B. CABLE CLAMP, TIE WRAP AND DOUBLE SIDED TAPE TO BE POSITIONED TO OPTIMIZE AND FACILITATE WIRE AND CABLE RETENTION AND ROUTING.
   C. EXPOSED WIRE AND CABLE CONNECTIONS TO BE PROPERLY SEALED USING APPROPRIATELY-SIZED SHRINK TUBING.

△2 SEE WIRE LIST FOR PIN ASSIGNMENTS CONNECTIONS AND CONDUCTORS.

△3 FOR SERVICING PURPOSE REMOVE SIDE COVER (ITEM (10)) & RETAINER (ITEM (8)) AND DOOR MOUNTING SCREWS. KEEP INDICATED SCREWS AS PIVOT POINT AND ROTATE DOOR ASSY AS SHOWN.

△4 SERVICE-LOOP REQUIRED WHEN CABLE BUNDLE IS INSTALLED FROM BACKPLANE TO POWER SUPPLIES.

5) APPLY APPROPRIATELY SIZED SHRINK TUBING AS INSULATION OVER THE CABLE WHERE CABLE NEEDS TO BE SEPARATED FROM SHARP EDGES AND PCB.

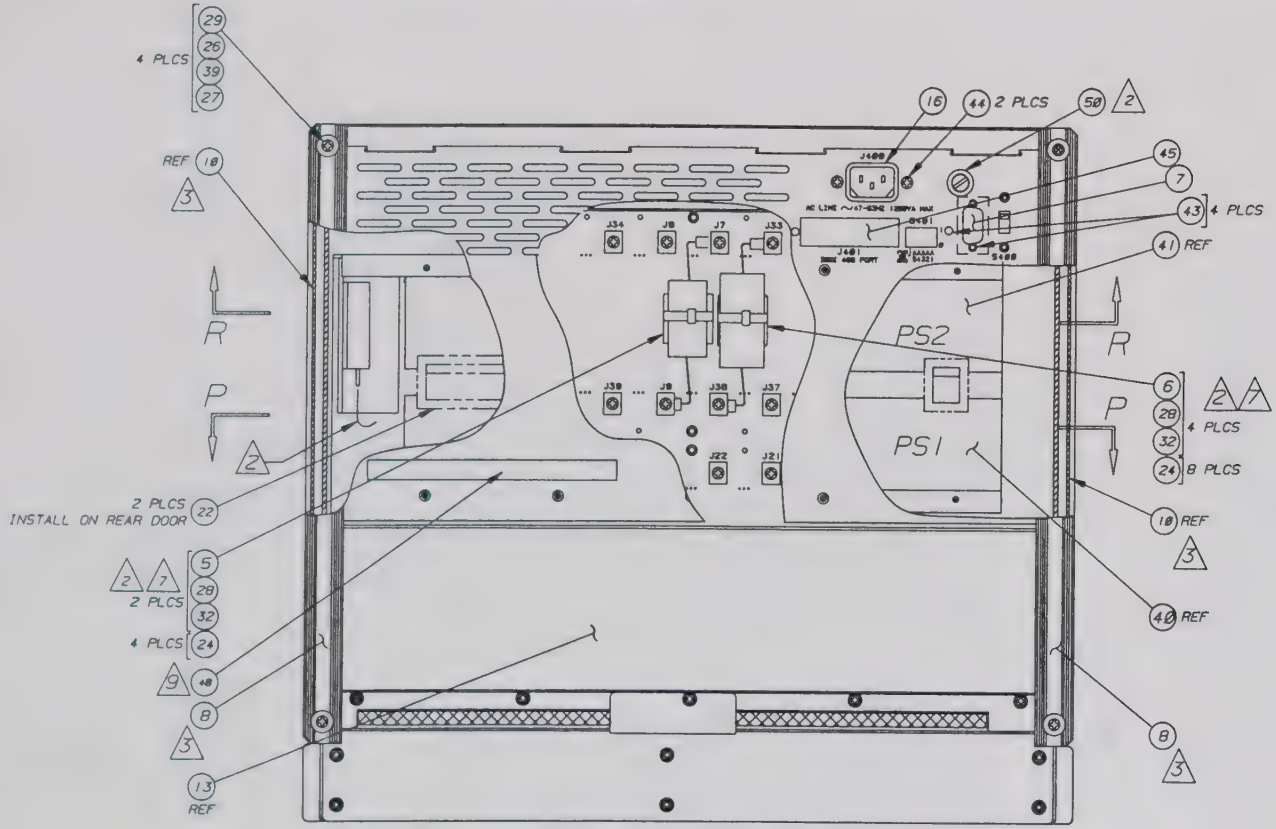
△6 REMOVE EXISTING WIRE ASSY TO J1 OF PS1 & PS2 AND INSTALL NEW WIRE ASSY (SEE WIRE LIST).

△7 EXPOSED WIRE AT BOTH ENDS OF CAPACITORS ITEM 5 & (6) MUST BE INSULATED BY USING SHRINK TUBING.

△8 APPLY ITEM (47) BETWEEN ITEM (2) & (11).

△9 TYPE PERTINENT DATA ON SERIAL NUMBER TAG, ATTACH TAG APPROXIMATELY WHERE SHOWN.

10. BAG AND TAG ITEMS 12, 46 AND 49 WITH RACAL PART NUMBER AND CURRENT REV LETTER, SHIP WITH UNIT.



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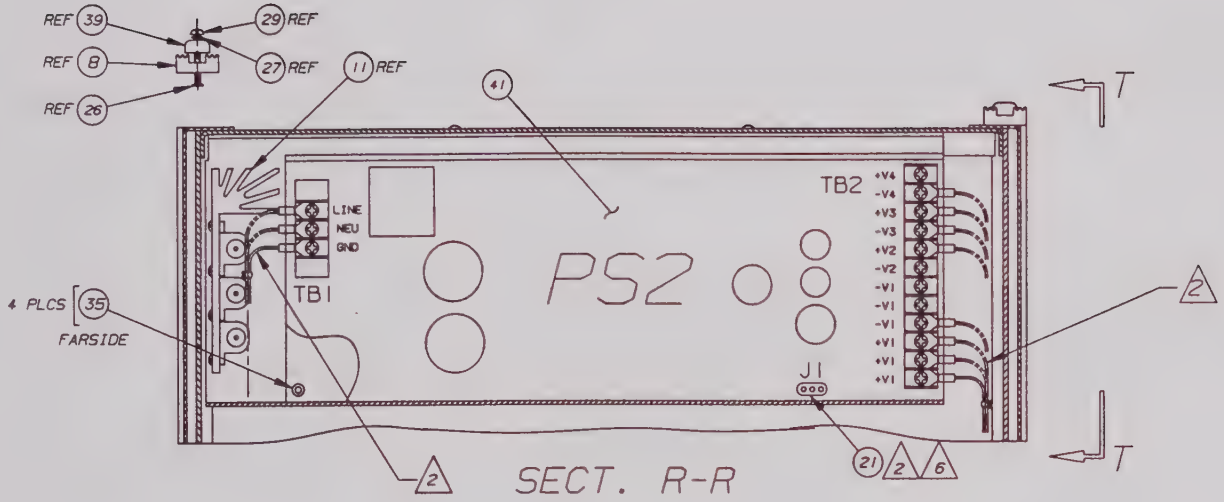

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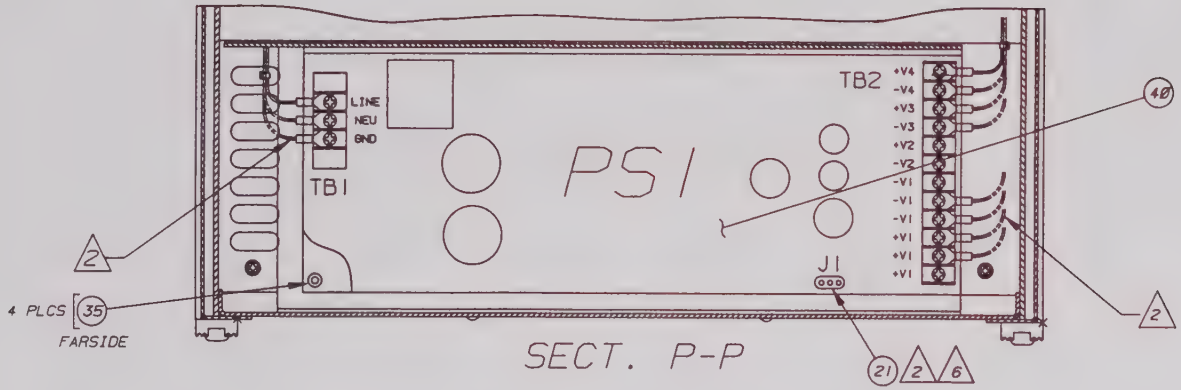

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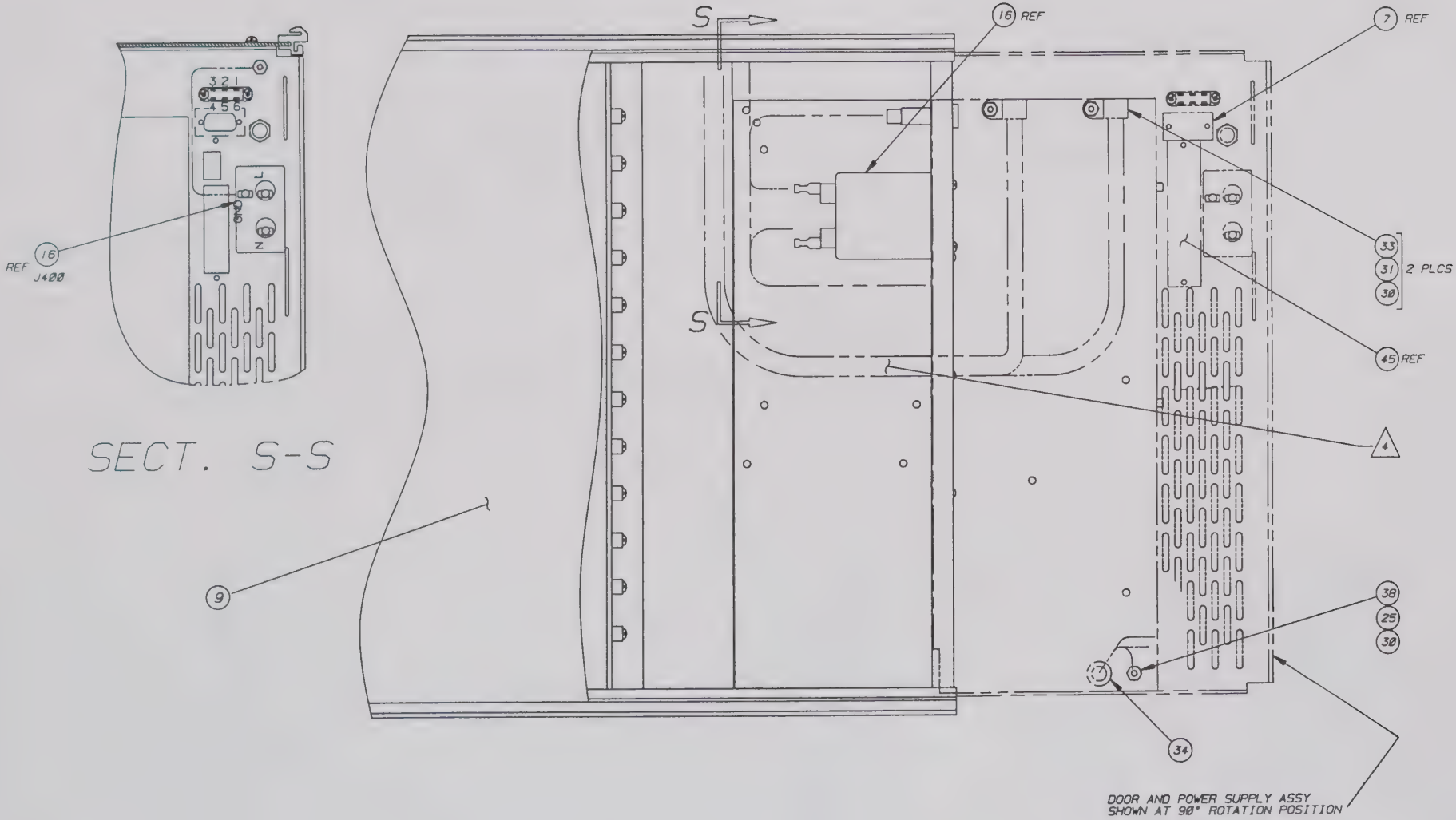

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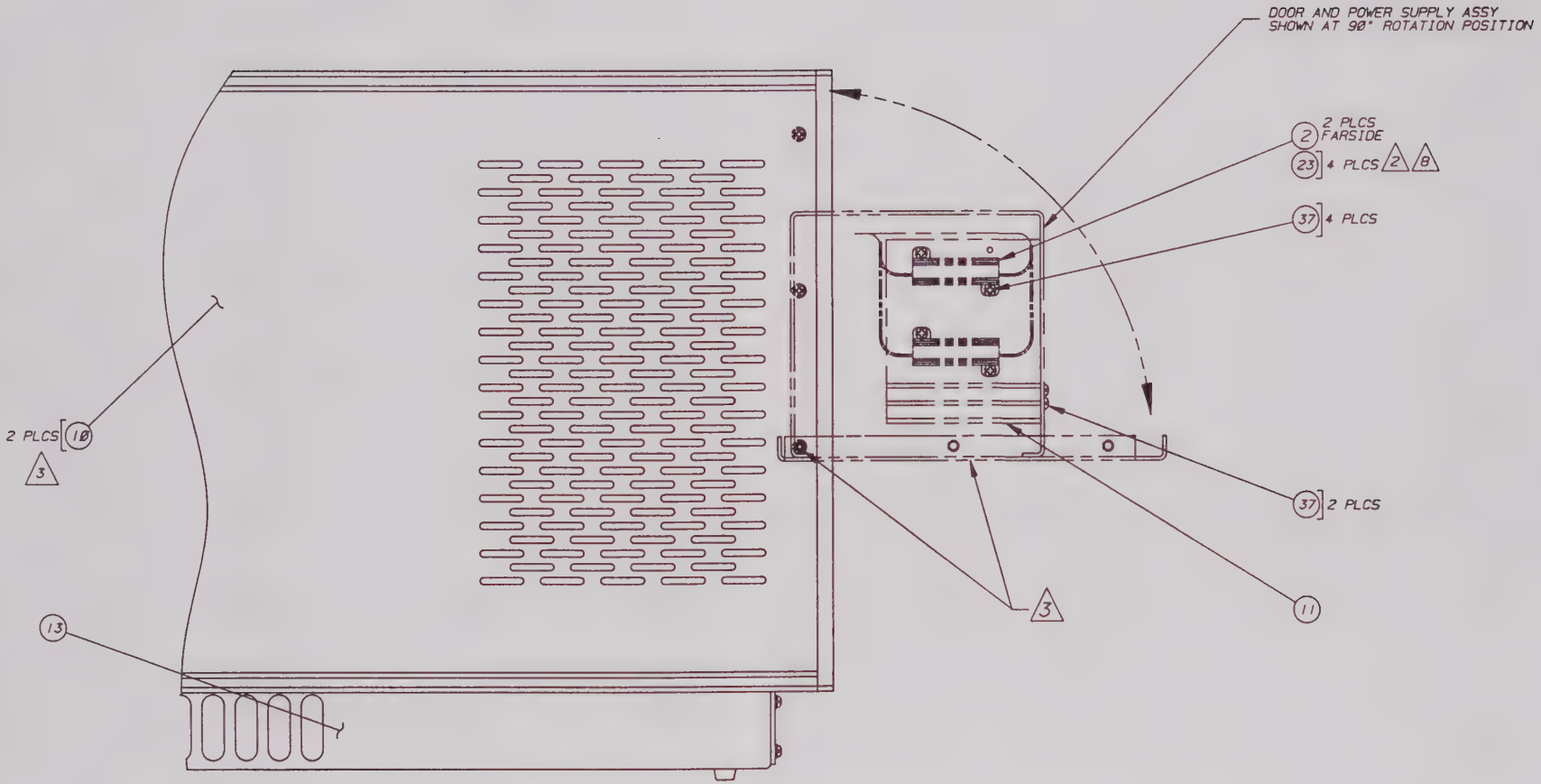

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ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
S100-2 601880		WIRE,TEF,STRND 16GA,BRN	521111	60"	LINE CRIMP
PS1-L 601159	PS2-L 601317	WIRE,TEF,STRND 16GA,BRN	521111	7.5"	2 WIRES 601317
F400-SIDE 921257	S100-1 601880	WIRE,TEF,STRND 16GA,BRN	521111	48"	
S100-5 601880		WIRE,TEF,STRND 16GA,BLU	521666	69"	NEUTRAL CRIMP
PS1-N 601159	PS2-N 601317	WIRE,TEF,STRND 16GA,BLU	521666	7.5"	2 WIRES 601317
CHASSIS GND 601508	PS1-GND 601159	WIRE,TEF,STRND 16GA,GRN	521555	9"	CHAS GND AT
					J400
CHASSIS GND 601508	PS2-GND 601159	WIRE,TEF,STRND 16GA,GRN	521555	9"	CHAS GND AT
					J400
401916-J20 601159	PS1-(V1+) 602103	WIRE,TEF,STRND 14GA,RED	500271 -222	33"	+5V CRIMP
401916-J40 601159		WIRE,TEF,STRND 14GA,RED	500271 -222	36"	2 WIRES 602103
401916-J4 601159	PS1-(V1+) 602103	WIRE,TEF,STRND 14GA,RED	500271 -222	32"	+5V CRIMP
401916 J37 601159		WIRE,TEF,STRND 14GA,RED	500271 -222	33"	2 WIRES 602103
401916-J11 601159	PS1-(V1+) 602103	WIRE,TEF,STRND 14GA,RED	500271 -222	38"	+5V CRIMP
401916-J35 601159		WIRE,TEF,STRND 14GA,RED	500271 -222	40"	2 WIRES 602103
401916-J5 601159	PS1-(V1-) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	33"	GND CRIMP
401916-J26 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	41"	2 WIRES 602103

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401916-J16 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	30"	2 WIRES 602103
401916-J13 601159	PS1-(V3+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	44"	GND CRIMP
401916-J16 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	29"	2 WIRES 602103
401916-J17 601159	PS1-(V3-) 601317	WIRE,TEF,STRND 14GA,WHT/BRN	500271 -919	30"	-2V CRIMP
401916-J27 601159		WIRE,TEF,STRND 14GA,WHT/BRN	500271 -919	38"	2 WIRES 601317
401916-J34 601159	PS1-(V4+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	36"	GND CRIMP
401916-J41 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	32"	2 WIRES 602103
401916-J18 601159	PS1-(V4-) 601317	WIRE,TEF,STRND 14GA,WHT	500271 -999	31"	-24V CRIMP
401916-J28 601159		WIRE,TEF,STRND 14GA,WHT	500271 -999	38"	2 WIRES 601317
401916-J25 601440	PS1-(S+) (600797)600650	WIRE,TEF,STRND 22GA,WHT/RED	523929	45"	+5V SENSE
401916-J13 601440	PS1-(S-) (600797)600650	WIRE,TEF,STRND 22GA,WHT/BLK	523909	45"	SENSE RTN
401916-J33 601159	PS2-(V1+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	33"	GND CRIMP
401916-J42 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	37"	2 WIRES 602103
401916-J32 601159	PS2-(V1+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	32"	GND CRIMP
401916-J44 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	44"	2 WIRES 602103

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ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
401916-J5 601159	PS2-(V1+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	32"	GND CRIMP
401916-J26 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	38"	2 WIRES 602103
401916-J36 601159	PS2-(V55-)	WIRE,TEF,STRND 14GA,BLK	500271 -000	47"	GND
401916-J6 601159	PS2-(V1-) 602103	WIRE,TEF,STRND 14GA,YEL	500271 -444	34"	-5.2V CRIMP
401916-J10 601159		WIRE,TEF,STRND 14GA,YEL	500271 -444	37"	2 WIRES 602103
401916-J30 601159	PS2-(V1-) 602103	WIRE,TEF,STRND 14GA,YEL	500271 -444	43"	-5.2V CRIMP
401916-J43 601159		WIRE,TEF,STRND 14GA,YEL	500271 -444	39"	2 WIRES 602103
401916-J19 601159	PS2-(V55+) 601317	WIRE,TEF,STRND 14GA,GRAY	500271 -888	36"	+24V CRIMP
401916-J29 601159		WIRE,TEF,STRND 14GA,GRAY	500271 -888	45"	2 WIRES 601317
401916-J32 601159	PS2-(V3+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	32"	GND CRIMP
401916-J44 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	46"	2 WIRES 602103
401916-J1 601159	PS2-(V3-) 601317	WIRE,TEF,STRND 14GA,VIO	500271 -777	36"	-12V CRIMP
401916-J12 601159		WIRE,TEF,STRND 14GA,VIO	500271 -777	45"	2 WIRES 601317
401916-J3 601159	PS2-(V4+) 601317	WIRE,TEF,STRND 14GA,ORN	500271 -333	36"	+12V CRIMP
401916-J14 601159		WIRE,TEF,STRND 14GA,ORN	500271 -333	47"	2 WIRES 601317

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AM	A	21793	407039	K
	DRN		SHEET 7 of 11	

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
401916-J34 601159	PS2-(V4-) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	42"	GND CRIMP
401916-J41 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	39"	2 WIRES 602103
401916-J10 601440	PS2-(S-) (600797)600650	WIRE,TEF,STRND 22GA,WHT/YEL	523949	47"	-5.2V SENSE
401916-J21 601440	PS2-(S+) (600797)600650	WIRE,TEF,STRND 22GA,WHT/BLU	523969	41"	SENSE RTN
404981-J1-5 611053 (P1)	401916-J31-5 601960 (P31)	WIRE,TEF,STRND 22GA,RED	523222	36"	VCC
404981-J1-6 611053 (P1)	401916-J31-6 601960 (P31)	WIRE,TEF,STRND 22GA,BLK	523000	36"	GND
404981-J2-1 611053 (P2)	PS1-PFD (600697)600651	WIRE,TEF,STRND 24GA,WHT/YEL/RED	524924	60"	PWR GOOD
404981-J2-2 611053 (P2)	401916-J39 601440	WIRE,TEF,STRND 22GA,BLK	523000	27"	PWR GOOD
					REF
404981-J1-1 611053 (P1)	404916-J31-1 601960 (P31)	WIRE,TEF,STRND 22GA,ORG	523333	36"	SYS RESET
404981-J1-3 611053 (P1)	401916-J31-3 601960 (P31)	WIRE,TEF,STRND 22GA,GRY	523888	36"	PWR GOOD

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AM	A	21793	407039	K
	DRN		SHEET 8 of 11	

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
	PS1-N 601440	WIRE,TEF,STRND 16GA,BLU	521666	30"	AC NEUTRAL
S400-1	FAN-F1	WIRE,TEF,STRND 18GA,BLU	522666	30"	SOLDER WIRE AT
					S400-1 SPLIT
					2 WIRES TO
					FAN-F1 AND
					PS1-N
S400-5	PS1-L 601440	WIRE,TEF,STRND 16GA,BRN	521111	32"	AC LINE
S400-4	FAN-F2	WIRE,TEF,STRND 18GA,BLU	522666	30"	SOLDER WIRE AT
	S400-2	WIRE,TEF,STRND 18GA,BLU	522666	30"	S400-4 SPLIT
					2 WIRES TO
					FAN-F2 AND
					S400-2
S400-6	FAN-F1	WIRE,TEF,STRND 18GA,BRN	522111	30"	SOLDER WIRE AT
	FAN-F2	WIRE,TEF,STRND 18GA,BRN	522111	30"	S400-6 SPLIT 2
					WIRES TO
					FAN-F1 AND
					FAN-F2
SOLDER CONNECTIONS AT 020737-		005.			
PS1-(V1+) 601159	020737-005	WIRE,TEF,STRND 14GA,RED	500271 -222		+5V

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AM	A	21793	407039	K
	DRN		SHEET 9 of 11	

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
PS1-(V1-) 601159	020737-005	WIRE,TEF,STRND 14GA,BLK	500271 -000		+5V RTN
PS2-(V1-) 601159	020737-005	WIRE,TEF,STRND 14GA,YEL	500271 -444		-5V
PS2-(V1+) 601159	020737-005	WIRE,TEF,STRND 14GA,BLK	500271 -000		-5V RTN
F400-END 921257	J400-L 601880	WIRE,TEF,STRND 16GA,BRN	521111	12.5"	115V
S100-4 601880	J400-N 601880	WIRE,TEF,STRND 16GA,BLU	521666	53"	
CHASSIS GND 601508	J400-GND 601880	WIRE,TEF,STRND 16GA,GRN	521555	12"	CHS GND
110248 (-) 601440	401916-J26 (GND)	USE COMPONENT LEAD			SHIELD WITH
110248 (+) 601440	401916-J24 (+24V)	USE COMPONENT LEAD			SHRINK TUBING
110247 (-) 601440	401916-J9 (GND)	USE COMPONENT LEAD			SHIELD WITH
110247 (+) 601440	401916-J8 (+12V)	USE COMPONENT LEAD			SHRINK TUBING
110248 (-) 601440	401916-J38 (-5.2V)	USE COMPONENT LEAD			SHIELD WITH
110248 (+) 601440	401916-J33 (GND)	USE COMPONENT LEAD			SHRINK TUBING
110248 (-) 601440	401916-J32 (GND)	USE COMPONENT LEAD			SHIELD WITH
110248 (+) 601440	401916-J37 (+5V)	USE COMPONENT LEAD			SHRINK TUBING

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

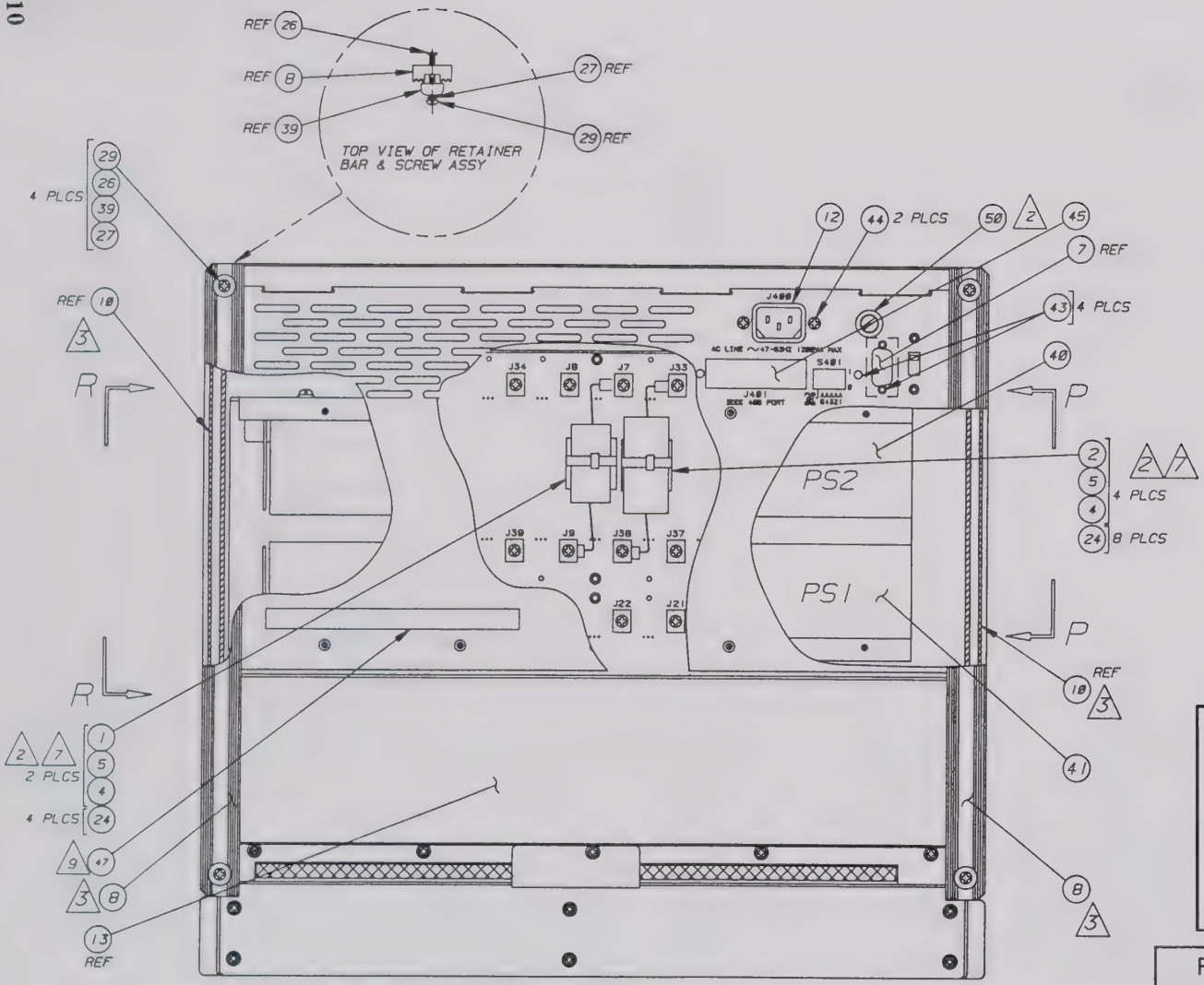
DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AM	A	21793	407039	K
	DRN		SHEET 10 of 11	

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
110247 (-) 601440	401916-J7 (-12V)	USE COMPONENT LEAD			SHIELD WITH
110247 (+) 601440	401916-J9 (GND)	USE COMPONENT LEAD			SHRINK TUBING
110248 (-) 601440	401916-J23 (-24V)	USE COMPONENT LEAD			SHIELD WITH
110248 (+) 601440	401916-J21 (GND)	USE COMPONENT LEAD			SHRINK TUBING

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AM	A	21793	407039	K
	DRN		SHEET 11 of 11	



NOTES: SEE SHEET 2.

PROPRIETARY NOTICE

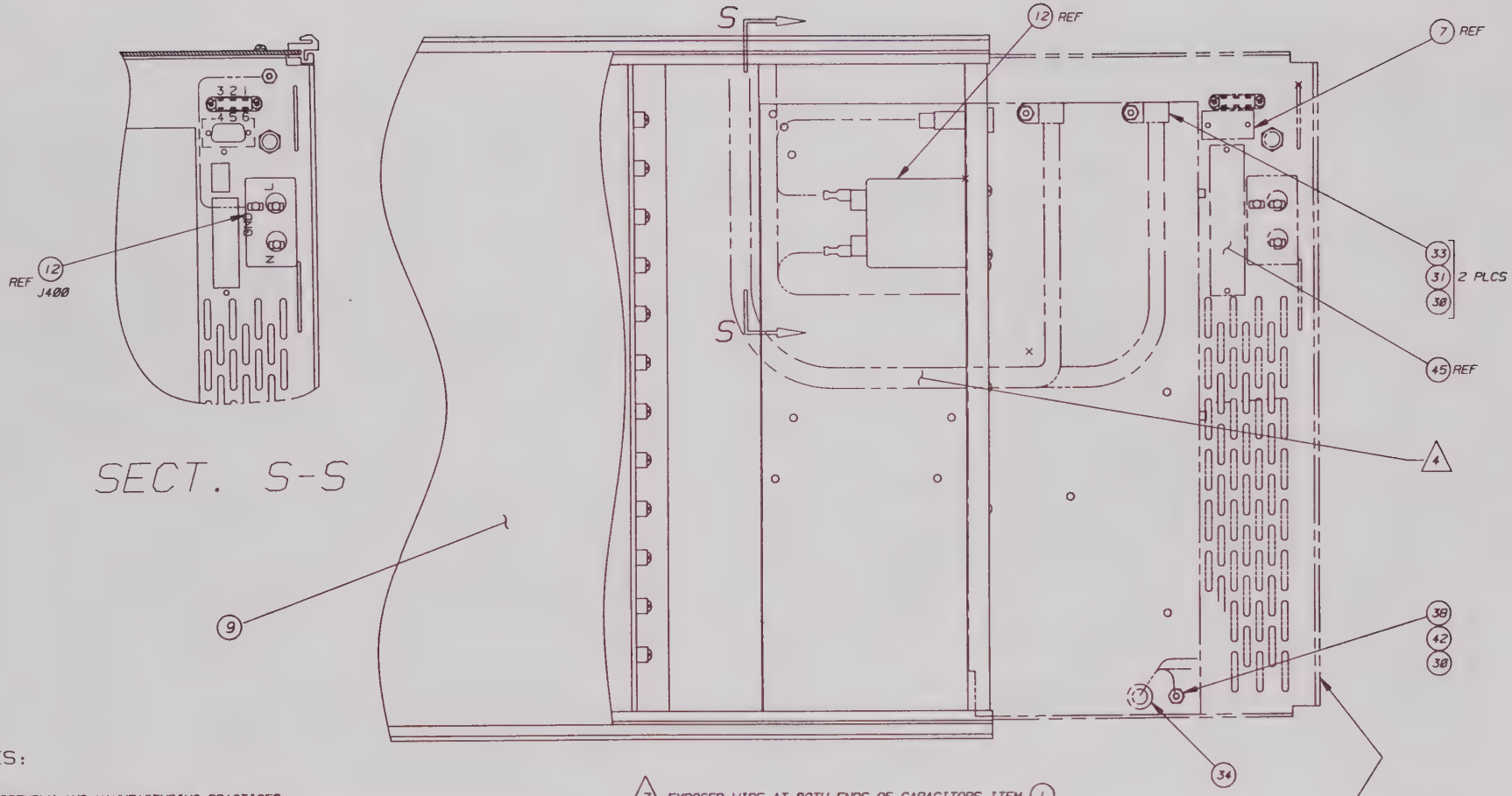
THIS DOCUMENT AND THE TECHNICAL DATA HEREIN DISCLOSED ARE PROPRIETARY TO RACAL INSTRUMENTS INC. AND SHALL NOT, WITHOUT THE EXPRESS WRITTEN PERMISSION OF RACAL INSTRUMENTS INC. BE USED, RELEASED OR DISCLOSED IN WHOLE OR IN PART, OR USED TO SOLICIT QUOTATIONS FROM A COMPETITIVE SOURCE OR USED FOR MANUFACTURE BY ANYONE OTHER THAN RACAL INSTRUMENTS INC. THE INFORMATION HEREON HAS BEEN DEVELOPED AT PRIVATE EXPENSE, AND MAY ONLY BE USED FOR PURPOSES OF ENGINEERING EVALUATION AND FOR INCORPORATION INTO TECHNICAL SPECIFICATIONS AND OTHER DOCUMENTS WHICH SPECIFY PROCUREMENT OF PRODUCTS FROM RACAL INSTRUMENTS INC.

Racal Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002

TITLE
CHASSIS ASSY, 1261AH

SIZE	CAGE CODE	DOCUMENT NUMBER	REV.
D	21793	407040	M

SCALE NONE		CALC. VT	ACT. VT	SHT. 1 OF 10



NOTES:

1. ASSEMBLY AND MANUFACTURING PRACTICES:
   A. FOR WIRE AND CABLE ROUTING, ANY CHOSEN PATH WHICH IS NON-INJURIOUS TO THE CONDUCTORS, CONNECTORS OR ADJACENT ASSEMBLIES IS ACCEPTABLE.
   B. CABLE CLAMP, TIE WRAP AND DOUBLE SIDED TAPE TO BE POSITIONED TO OPTIMIZE AND FACILITATE WIRE AND CABLE RETENTION AND ROUTING.
   C. EXPOSED WIRE AND CABLE CONNECTIONS TO BE PROPERLY SEALED USING APPROPRIATELY-SIZED SHRINK TUBING.

△2 SEE WIRE LIST FOR PIN ASSIGNMENTS CONNECTIONS AND CONDUCTORS.

△3 FOR SERVICING PURPOSE REMOVE SIDE COVER (ITEM (10)) & RETAINER (ITEM (8)) AND DOOR MOUNTING SCREWS. KEEP INDICATED SCREWS AS PIVOT POINT AND ROTATE DOOR ASSY AS SHOWN.

△4 SERVICE-LOOP REQUIRED WHEN CABLE BUNDLE IS INSTALLED FROM BACKPLANE TO POWER SUPPLIES.

5) APPLY APPROPRIATELY SIZED SHRINK TUBING AS INSULATION OVER THE CABLE WHERE CABLE NEEDS TO BE SEPARATED FROM SHARP EDGES AND PCB.

6) NOTE NOT ASSIGNED.

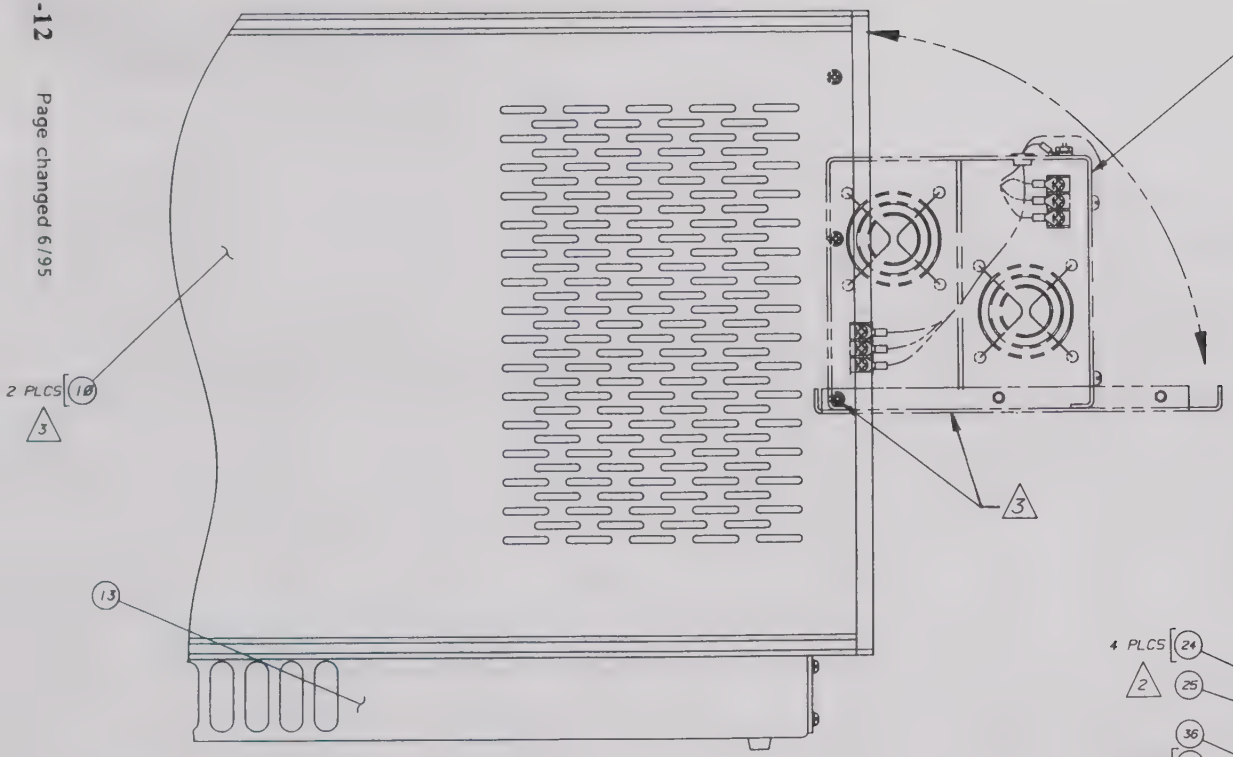
△7 EXPOSED WIRE AT BOTH ENDS OF CAPACITORS ITEM (1) & (2) MUST BE INSULATED BY USING SHRINK TUBING.

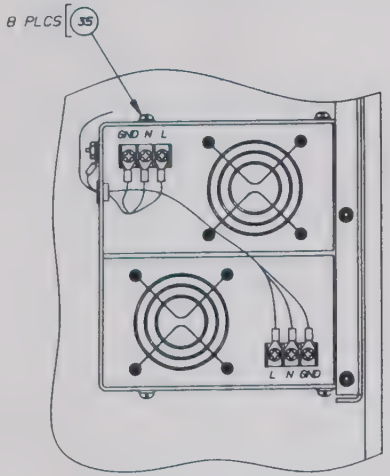
8) TERMINALS PART NUMBER 600650 AND 600651 ISSUED ON DRAWING 407075 ARE NOT USED ON THIS ASSEMBLY. RETURN THESE PARTS TO STOCK.

△9 TYPE PERTINENT DATA ON SERIAL NUMBER TAG, APPROXIMATELY WHERE SHOWN.

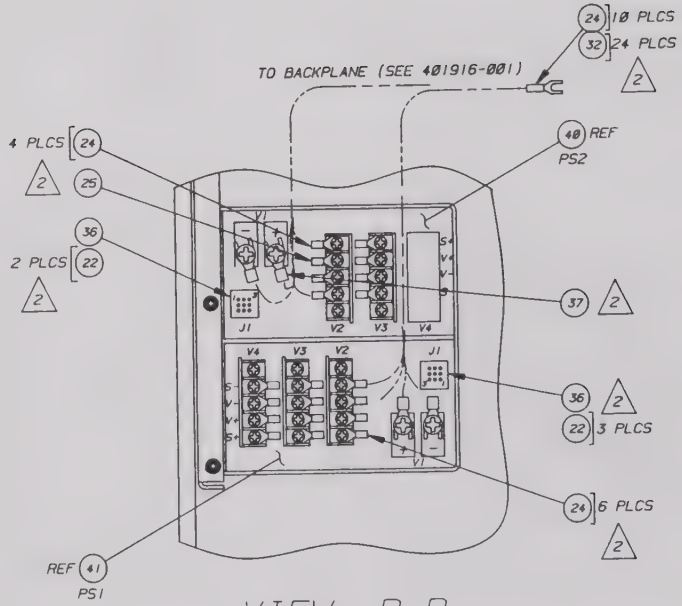
10. BAG AND TAG ITEMS 11, 46 AND 49 WITH RACAL PART NUMBER AND CURRENT REV LETTER, SHIP WITH UNIT.

SIZE	CAGE CODE	DOCUMENT NUMBER	REV.
D	21793	407040	M
SCALE 1:2		CALC. WT / ACT. WT	SHT. 2 OF 10





VIEW R-R



VIEW P-P

SIZE	CAGE CODE	DOCUMENT NUMBER	REV.
D	21793	407040	M
SCALE NONE		CALC. WT / ACT. WT	SHT. 3 OF 10

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
S100-2 601880		WIRE,TEF,STRND 16GA,BRN	521111	60"	LINE CRIMP
PS1-L 601159	PS2-L 601317	WIRE,TEF,STRND 16GA,BRN	521111	7.5"	2 WIRES 601317
F400-SIDE 921257	S100-1 601880	WIRE,TEF,STRND 16GA,BRN	521111	48"	
S100-5 601880		WIRE,TEF,STRND 16GA,BLU	521666	69"	NEUTRAL CRIMP
PS1-N 601159	PS2-N 601317	WIRE,TEF,STRND 16GA,BLU	521666	7.5"	2 WIRES 601317
CHASSIS GND 601508	PS1-GND 601159	WIRE,TEF,STRND 16GA,GRN	521555	9"	CHAS GND AT
					J400
CHASSIS GND 601508	PS2-GND 601159	WIRE,TEF,STRND 16GA,GRN	521555	9"	CHAS GND AT
					J400
401916-J20 601159	PS1-(V1+) 602103	WIRE,TEF,STRND 14GA,RED	500271 -222	33"	+5V CRIMP
401916-J40 601159		WIRE,TEF,STRND 14GA,RED	500271 -222	36"	2 WIRES 602103
401916-J4 601159	PS1-(V1+) 602103	WIRE,TEF,STRND 14GA,RED	500271 -222	32"	+5V CRIMP
401916-J37 601159		WIRE,TEF,STRND 14GA,RED	500271 -222	33"	2 WIRES 602103
401916-J11 601159	PS1-(V1+) 602103	WIRE,TEF,STRND 14GA,RED	500271 -222	38"	+5V CRIMP
401916-J35 601159		WIRE,TEF,STRND 14GA,RED	500271 -222	40"	2 WIRES 602103
401916-J5 601159	PS1-(V1-) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	33"	GND CRIMP
401916-J26 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	41"	2 WIRES 602103

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AH	A	21793	407040	M
	DRN			SHEET 4 of 10

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
401916-J13 601159	PS1-(V2-) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	45"	GND
401916-J16 601159	PS1-(V2-) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	30"	GND
401916-J13 601159	PS1-(V1-) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	44"	GND CRIMP
401916-J16 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	29"	2 WIRES 602103
401916-J17 601159	PS2-(V2-) 601317	WIRE,TEF,STRND 14GA,WHT/BRN	500271 -919	30"	-2V
401916-J27 601159	PS2-(V2-) 601317	WIRE,TEF,STRND 14GA,WHT/BRN	500271 -919	38"	-2V
401916-J34 601159	PS1-(V3+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	36"	GND
401916-J41 601159	PS1-(V3+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	32"	GND
401916-J18 601159	PS2-(V3-) 601317	WIRE,TEF,STRND 14GA,WHT	500271 -999	31"	-24V
401916-J28 601159	PS2-(V3-) 601317	WIRE,TEF,STRND 14GA,WHT	500271 -999	38"	-24V
401916-J25 601440	PS1-J1-PIN1 600380	WIRE,TEF,STRND 22GA,WHT/RED	523929	45"	+5V SENSE
401916-J13 601440	PS1-J1-PIN4 600380	WIRE,TEF,STRND 22GA,WHT/BLK	523909	45"	SENSE RTN
401916-J33 601159	PS1-(V4-) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	33"	GND

DOCUMENT TITLE	SIZE	CODE NO	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AH	A	21793	407040	M
	DRN			SHEET 5 of 10

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
401916-J42 601159	PS1-(V4-) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	37"	GND
401916 J32 601159	PS2-(V1+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	32"	GND CRIMP
401916-J44 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	44"	2 WIRES 602103
401916-J6 601159	PS2-(V1-) 602103	WIRE,TEF,STRND 14GA,YEL	500271 -444	34"	-5.2V CRIMP
401916-J10 601159		WIRE,TEF,STRND 14GA,YEL	500271 -444	37"	2 WIRES 602103
401916-J30 601159	PS2-(V1-) 602103	WIRE,TEF,STRND 14GA,YEL	500271 -444	43"	-5.2V CRIMP
401916-J43 601159		WIRE,TEF,STRND 14GA,YEL	500271 -444	39"	2 WIRES 602103
401916-J19 601159	PS1-(V4+) 601317	WIRE,TEF,STRND 14GA,GRAY	500271 -888	36"	+24V
401916-J29 601159	PS1-(V4+) 601317	WIRE,TEF,STRND 14GA,GRAY	500271 -888	45"	+24V
401916-J5 601159	PS2-(V3+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	32"	GND
401916-J26 601159	PS2-(V3+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	38"	GND
401916-J32 601159	PS2-(V2+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	32"	GND
401916-J44 601159	PS2-(V2+) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	46"	GND
401916-J1 601159	PS1-(V3-) 601317	WIRE,TEF,STRND 14GA,VIO	500271 -777	36"	-12V

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AH	A	21793	407040	M
	DRN			SHEET 6 of 10

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
401916-J12 601159	PS1-(V3-) 601317	WIRE,TEF,STRND 14GA,VIO	500271 -777	45"	-12V
401916-J3 601159	PS1-(V2+) 601317	WIRE,TEF,STRND 14GA,ORN	500271 -333	36"	+12V
401916-J14 601159	PS1-(V2+) 601317	WIRE,TEF,STRND 14GA,ORN	500271 -333	47"	+12V
401916-J34 601159	PS1-(V1-) 602103	WIRE,TEF,STRND 14GA,BLK	500271 -000	42"	GND CRIMP
401916-J41 601159		WIRE,TEF,STRND 14GA,BLK	500271 -000	39"	2 WIRES 602103
401916-J10 601440	PS2-J1-PIN4 600380	WIRE,TEF,STRND 22GA,WHT/YEL	523949	47"	-5.2V SENSE
401916-J21 601440	PS2-J1-PIN1 600380	WIRE,TEF,STRND 22GA,WHT/BLU	523969	41"	SENSE RTN
404981-J1-5 611053 (P1)	401916-J31-5 601960 (P31)	WIRE,TEF,STRND 22GA,RED	523222	36"	VCC
404981-J1-6 611053 (P1)	401916-J31-6 601960 (P31)	WIRE,TEF,STRND 22GA,BLK	523000	36"	GND
404981-J2-2 611053 (P2)	401916-J39 601440	WIRE,TEF,STRND 22GA,BLK	523000	27"	PWR GOOD REF
404981-J1-1 611053 (P1)	404916-J31-1 601960 (P31)	WIRE,TEF,STRND 22GA,ORG	523333	36"	SYS RESET
404981-J1-3 611053 (P1)	401916-J31-3 601960 (P31)	WIRE,TEF,STRND 22GA,GRY	523888	36"	PWR GOOD

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AH	A	21793	407040	M
	DRN			SHEET 7 of 10

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
404961-J2-1 611053 (P2)	PS1-J1-PIN5 600380	WIRE,TEF,STRND 24GA,WHT/YEL/RED	524924	60"	PWR GOOD
	PS1-N 601440	WIRE,TEF,STRND 16GA,BLU	521666	30"	AC NEUTRAL
S400-1	FAN-F1	WIRE,TEF,STRND 18GA,BLU	522666	30"	SOLDER WIRE AT
					S400-1 SPLIT
					2 WIRES TO FAN
					AND LUG
S400-5	PS1-L 601440	WIRE,TEF,STRND 16GA,BRN	521111	32"	AC LINE
S400-4	FAN-F2	WIRE,TEF,STRND 18GA,BLU	522666	30"	SOLDER WIRE AT
	S400-2	WIRE,TEF,STRND 18GA,BLU	522666	30"	S400-4 SPLIT
					2 WIRES TO FAN
					AND S400
S400-6	FAN-F1	WIRE,TEF,STRND 18GA,BRN	522111	30"	SOLDER WIRE AT
	FAN-F2	WIRE,TEF,STRND 18GA,BRN	522111	30"	S400-6 SPLIT 2
					WIRES TO FAN
					AND FAN 2
PS1-(V4S+) 601440	401916-J19 601440	WIRE,TEF,STRND 22GA,GRAY	523888		+24V SENSE

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AH	A	21793	407040	M
	DRN		SHEET 8 of 10	

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
PS1-(V4S-) 601440	401916-J9 601440	WIRE,TEF,STRND 22GA,BLK	523000		+24VSNS RTN
PS1-(V2S-) 601440		WIRE,TEF,STRND 22GA,BLK	523000		CRIMP 2 WIRES
					601440
PS1-(V2S+) 601440	401916-J8 601440	WIRE,TEF,STRND 22GA,ORN	523333		+12V SENSE
PS1-(V3S-) 601440	401916-J7 601440	WIRE,TEF,STRND 22GA,BRN	523111		-12V SENSE
PS1-(V3S+) 601440	401916-J39 601440	WIRE,TEF,STRND 22GA,BLK	523000		-12VSNS RTN
PS2-(V1+) 602103	401916-J33 601159	WIRE,TEF,STRND 14GA,BLK	500271 -000		GND CRIMP
	401916-J42 601159	WIRE,TEF,STRND 14GA,BLK	500271 -000		2 WIRES 602103
PS2-(V2+) 601317	401916-J5 601159	WIRE,TEF,STRND 18GA,BLK	522000		GND CRIMP
	401916-J42 601159	WIRE,TEF,STRND 18GA,BLK	522000		2WIRES 601317
PS2-(V2S-) 601440	401916-J17 601440	WIRE,TEF,STRND 22GA,WHT/BRN	523919		-2V SENSE
PS2-(V2S+) 601440	401916-J21 601440	WIRE,TEF,STRND 22GA,BLK	523000		-2V SNS RTN
PS2-(V3S+) 601440		WIRE,TEF,STRND 22GA,BLK	523000		-24VSNS RTN
					CRIMP 2 WIRES
					601440
PS2-(V3S-) 601440	401916-J 18 601440	WIRE,TEF,STRND 22GA,WHT	523999		-24V SENSE
F400-END 921257	J400-L 601880	WIRE,TEF,STRND 16GA,BRN	521111	12.5"	115V

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AH	A	21793	407040	M
	DRN		SHEET 9 of 10	

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
S400-4 601880	J400-N 601880	WIRE,TEF,STRND 16GA,BLU	521666	53"	
CHASSIS GND 601880	J400-GND 601880	WIRE,TEF,STRND 16GA,GRN	521555	12"	CHS GND
110248 (-) 601440	401916-J26 (GND)	USE COMPONENT LEAD			SHIELD WITH
110248 (+) 601440	401916-J24 (+24V)	USE COMPONENT LEAD			SHRINK TUBING
110247 (-) 601440	401916-J9 (GND)	USE COMPONENT LEAD			SHIELD WITH
110247 (+) 601440	401916-J8 (+12V)	USE COMPONENT LEAD			SHRINK TUBING
110248 (-) 601440	401916-J38 (-5.2V)	USE COMPONENT LEAD			SHIELD WITH
110248 (+) 601440	401916-J33 (GND)	USE COMPONENT LEAD			SHRINK TUBING
110248 (-) 601440	401916-J32 (GND)	USE COMPONENT LEAD			SHIELD WITH
110248 (+) 601440	401916-J37 (+5V)	USE COMPONENT LEAD			SHRINK TUBING
110247 (-) 601440	401916-J7 (-12V)	USE COMPONENT LEAD			SHIELD WITH
110247 (+) 601440	401916-J9 (GND)	USE COMPONENT LEAD			SHRINK TUBING
110248 (-) 601440	401916-J23 (-24V)	USE COMPONENT LEAD			SHIELD WITH
110248 (+) 601440	401916-J21 (GND)	USE COMPONENT LEAD			SHRINK TUBING

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
CHASSIS ASSY., 1261AH	A	21793	407040	M
	DRN			SHEET 10 of 10

NOTES:

1. ASSEMBLY AND MANUFACTURING PRACTICES:
   A. FOR WIRE AND CABLE ROUTING, ANY CHOSEN PATH WHICH IS NON-INJURIOUS TO THE CONDUCTORS, CONNECTORS OR ADJACENT ASSEMBLIES IS ACCEPTABLE.
   B. CABLE CLAMP, TIE WRAP AND DOUBLE SIDED TAPE TO BE POSITIONED TO OPTIMIZE AND FACILITATE WIRE AND CABLE RETENTION AND ROUTING.
   C. EXPOSED WIRE AND CABLE CONNECTIONS TO BE PROPERLY SEALED USING APPROPRIATELY-SIZED SHRINK TUBING.

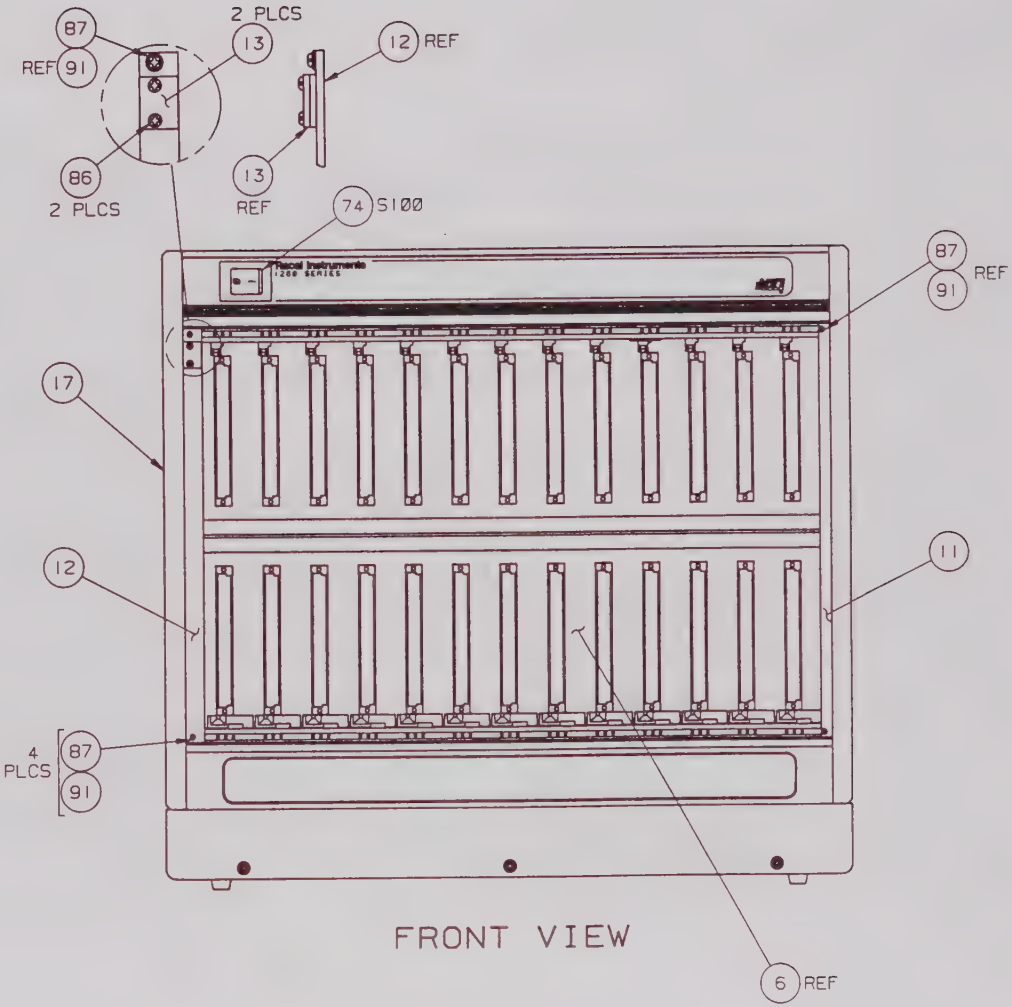
△A SEE WIRE LIST FOR PIN ASSIGNMENTS, CONNECTIONS AND CONDUCTORS.

3. LOCTITE (ITEM 97) TO BE USED WHERE MECHANICAL LOCKING HARDWARE (SEMS, LOCKWASHER, ETC.) ARE NOT SPECIFIED.

4. NOTE NOT USED.

△A REMOVE BUSWIRE BETWEEN PINS 3 & 4 BEFORE INSTALLING.

6. APPLY APPROPRIATELY-SIZED SHRINK TUBING OVER THE CABLE AS INSULATION WHERE CABLE NEEDS TO BE SEPARATED FROM THE SHARP EDGES OF METAL OR PCB.



FRONT VIEW

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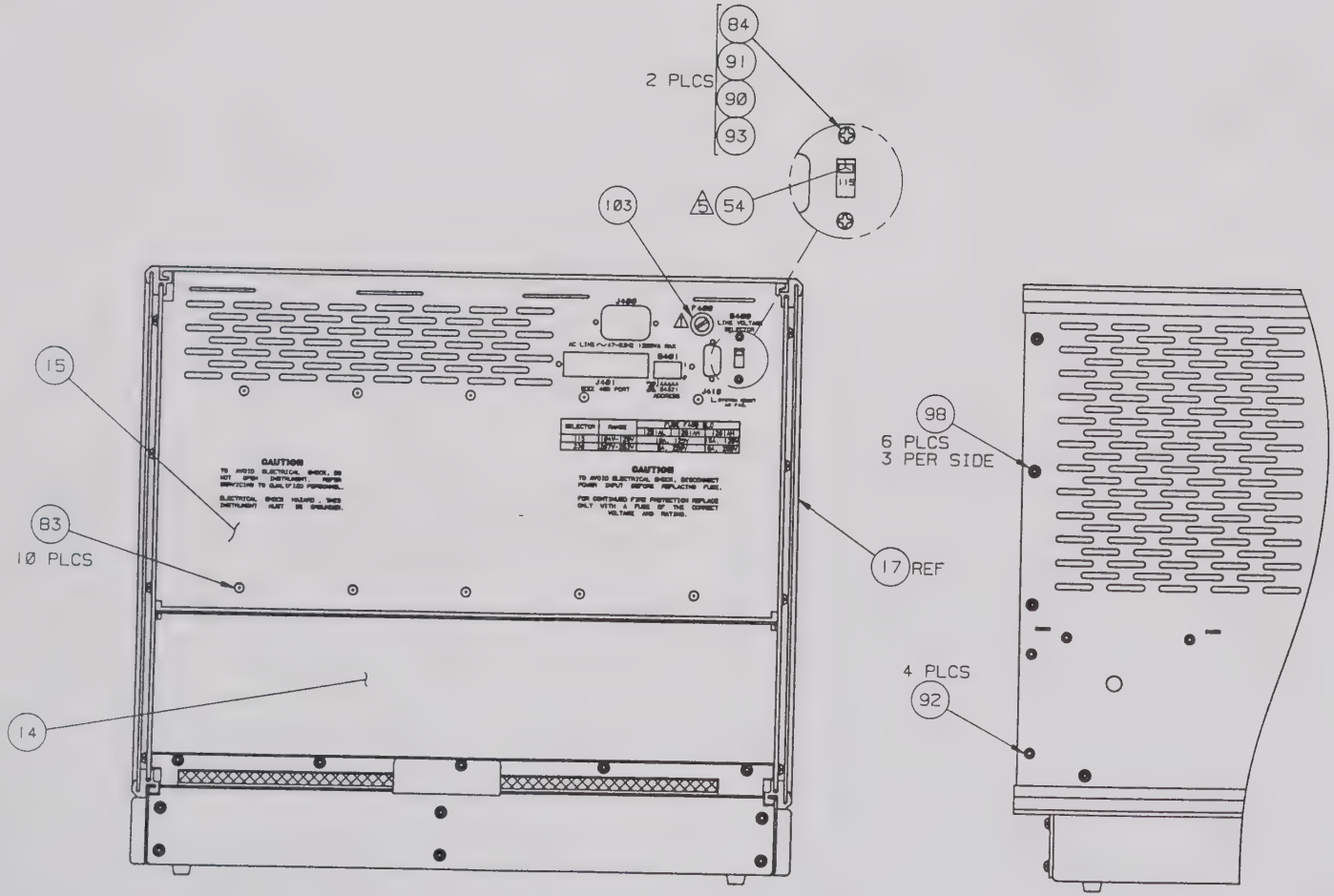
RACAL Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002

TITLE
ENCLOSURE ASSY, 1261A

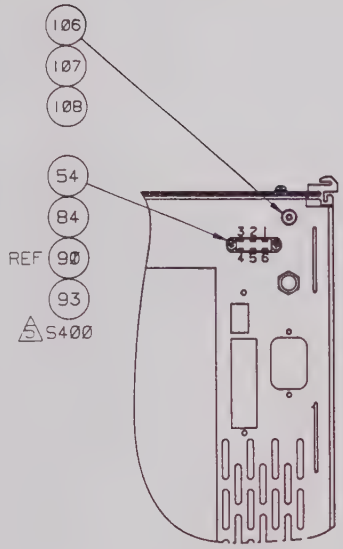
SIZE	CAGE CODE	DWG NO.	REV.
D	21793	407075	H

SCALE 1:2 | CALC. WT | ACT. WT | SHEET 1 OF 8

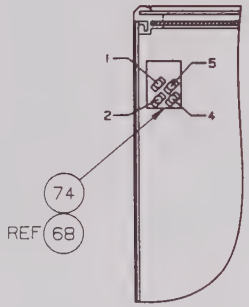


REAR VIEW

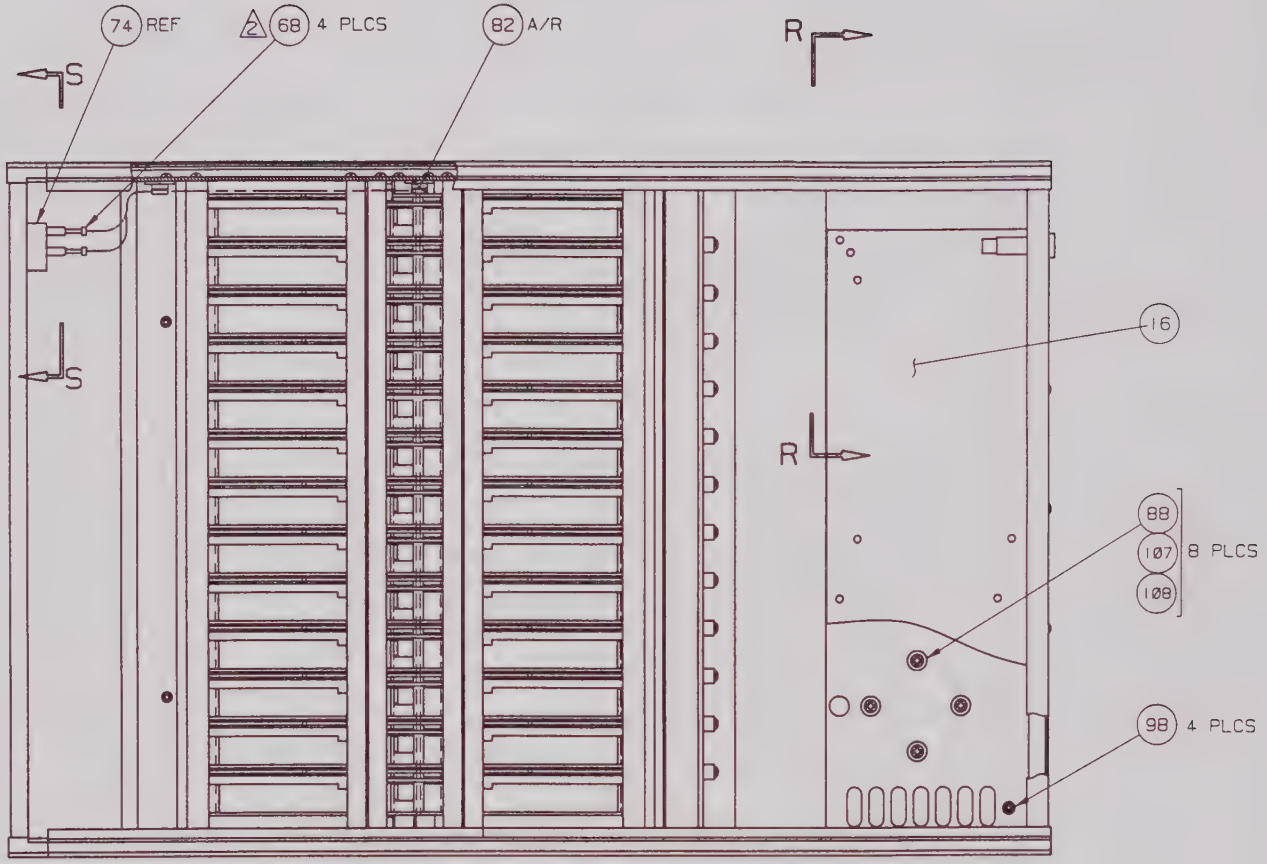
SIZE	CAGE CODE	DWG NO.	REV.
D	21793	407075	H
SCALE 1:2		CALC. VT / ACT. VT	SHEET 2 OF 6



SECT. R-R

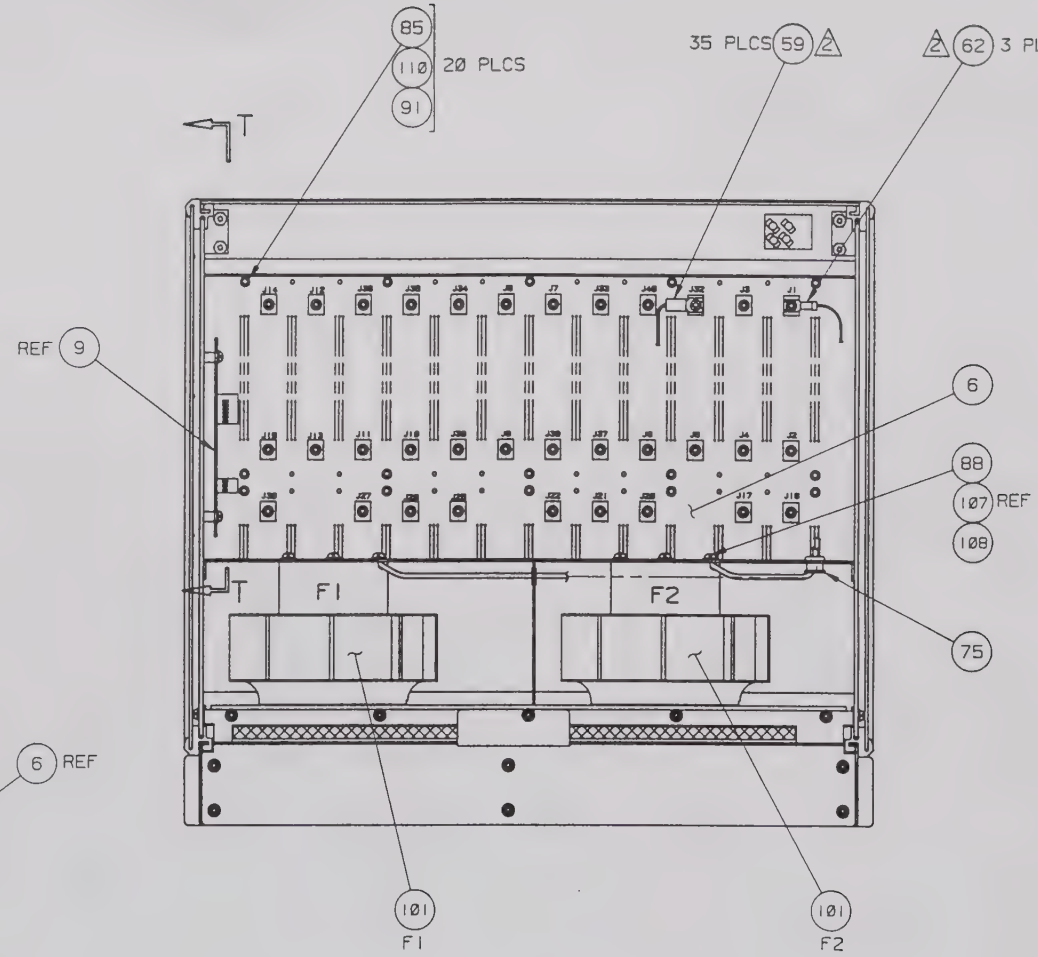


SECT. S-S



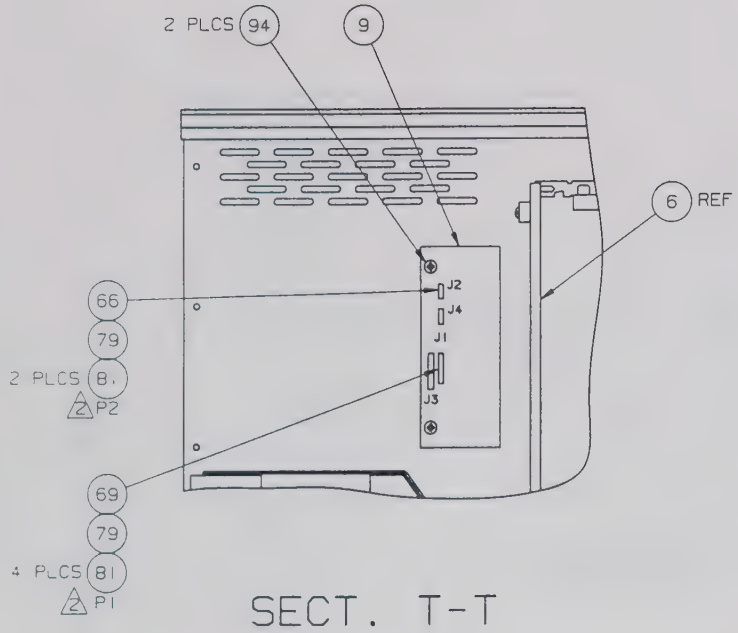
TOP VIEW

SIZE	CAGE CODE	DWG NO.	REV.
D	21793	407075	H
SCALE 1:2		SHEET 3 OF 8	



REAR VIEW

REAR DOOR ASSY AND FAN COVER OMITTED



SECT. T-T

SIZE	CAGE CODE	DWG NO.	REV.
D	21793	407075	H
SCALE 1:2		CALC. VT ACT. VT	SHEET 4 OF 8

---from-------	--to----------	--cond.type,ga,color----	--p/n-----	-lth-	--ref--
	F400-END	WIRE,TEF,STRND	521111	12.5"	115V
601880	921257	16GA,BRN			
F400-SIDE	S100-1	WIRE,TEF,STRND	521111	48"	
921257	601880	16GA,BRN			
S100-4		WIRE,TEF,STRND	521666	53"	
601880	601880	16GA,BLU			
S100-2		WIRE,TEF,STRND	521111	35"	LINE
601880	601317	16GA,BRN			
		WIRE,TEF,STRND	521111	7.5"	
601159		16GA,BRN			
S100-5		WIRE,TEF,STRND	521666	69"	NEUTRAL
601880	601317	16GA,BLU			
		WIRE,TEF,STRND	521666	7.5"	
601159		16GA,BLU			
	CHASSIS GND	WIRE,TEF,STRND	521555	12"	CHS GND
601880	601508	16GA,GRN			
	CHASSIS GND	WIRE,TEF,STRND	521555	9"	CHS GND
601159	601508	16GA,GRN			AT J400
	CHASSIS GND	WIRE,TEF,STRND	521555	9"	CHS GND
601159	601508	16GA,GRN			AT J400
	401916-J20	WIRE,TEF,STRND	500271	33"	+5V
602103	601159	14GA,RED	-222		CRIMP
	401916-J40	WIRE,TEF,STRND	500271	36"	2 WIRES
	601159	14GA,RED	-222		602103
	401916-J4	WIRE,TEF,STRND	500271	32"	+5V
602103	601159	14GA,RED	-222		CRIMP
	401916-J37	WIRE,TEF,STRND	500271	33"	2 WIRES
	601159	14GA,RED	-222		602103
	401916-J11	WIRE,TEF,STRND	500271	38"	+5V
602103	601159	14GA,RED	-222		CRIMP
	401916-J35	WIRE,TEF,STRND	500271	40"	2 WIRES
	601159	14GA,RED	-222		602103
	401916-J5	WIRE,TEF,STRND	500271	33"	GND
602103	601159	14GA,BLK	-000		CRIMP
	401916-J26	WIRE,TEF,STRND	500271	41"	2 WIRES
	601159	14GA,BLK	-000		602103

SIZE	CODE IDENT NO	DOCUMENT NO	REV
A	21793	407075	H
SCALE ------		SHEET 5 OF 8	

---from-------	--to----------	--cond.type,ga,color----	--p/n-----	-lth-	--ref--
	401916-J13	WIRE,TEF,STRND	500271	45"	GND
602103	601159	14GA,BLK	-000		CRIMP
	401916-J16	WIRE,TEF,STRND	500271	30"	2 WIRES
611231	601159	14GA,BLK	-000		602103
	401916-J13	WIRE,TEF,STRND	500271	44"	GND
602103	601159	14GA,BLK	-000		CRIMP
	401916-J16	WIRE,TEF,STRND	500271	29"	2 WIRES
	601159	14GA,BLK	-000		602103
	401916-J17	WIRE,TEF,STRND	500271	30"	-2V
601317	601159	14GA,WHT/BRN	-919		CRIMP
	401916-J27	WIRE,TEF,STRND	500271	38"	2 WIRES
	601159	14GA,WHT/BRN	-919		601317
	401916-J34	WIRE,TEF,STRND	500271	36"	GND
602103	601159	14GA,BLK	-000		CRIMP
	401916-J41	WIRE,TEF,STRND	500271	32"	2 WIRES
	601159	14GA,BLK	-000		602103
	401916-J18	WIRE,TEF,STRND	500271	31"	-24V
601317	601159	14GA,WHT	-999		CRIMP
	401916-J28	WIRE,TEF,STRND	500271	38"	2 WIRES
	601159	14GA,WHT	-999		601317
	401916-J25	WIRE,TEF,STRND	523929	45"	+5V
600650	601440	22GA,WHT/RED			SENSE
	401916-J13	WIRE,TEF,STRND	523909	45"	SENSE
600650	601440	22GA,WHT/BLK			RTN
	401916-J33	WIRE,TEF,STRND	500271	33"	GND
602103	601159	14GA,BLK	-000		CRIMP
	401916-J42	WIRE,TEF,STRND	500271	37"	2 WIRES
	601159	14GA,BLK	-000		602103
	401916-J32	WIRE,TEF,STRND	500271	32"	GND
602103	601159	14GA,BLK	-000		CRIMP
	401916-J44	WIRE,TEF,STRND	500271	44"	2 WIRES
	601159	14GA,BLK	-000		602103
	401916-J5	WIRE,TEF,STRND	500271	32"	GND
602103	601159	14GA,BLK	-000		CRIMP
	401916-J26	WIRE,TEF,STRND	500271	38"	2 WIRES
	601159	14GA,BLK	-000		602103
	401916-J6	WIRE,TEF,STRND	500271	34"	-5.2V
602103	601159	14GA,YEL	-444		CRIMP
	401916-J10	WIRE,TEF,STRND	500271	37"	2 WIRES
	601159	14GA,YEL	-444		602103

SIZE	CODE IDENT NO	DOCUMENT NO	REV
A	21793	407075	H
SCALE -------		SHEET 6 OF 8	

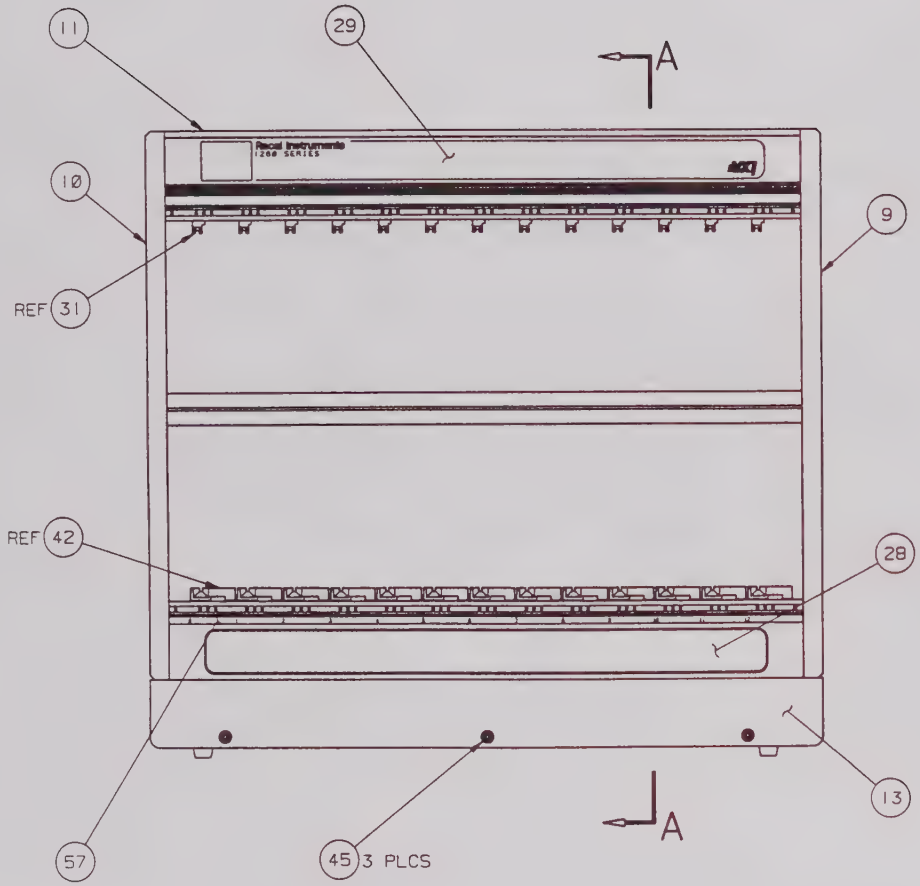
---from-------	--to----------	--cond.type,ga,color----	--p/n-----	-lth-	--ref--
	401916-J30	WIRE,TEF,STRND	500271	43"	-5.2V
602103	601159	14GA,YEL	-444		CRIMP
	401916-J43	WIRE,TEF,STRND	500271	39"	2 WIRES
	601159	14GA,YEL	-444		602103
	401916-J19	WIRE,TEF,STRND	500271	36"	+24V
601317	601159	14GA,GRAY	-888		CRIMP
	401916-J29	WIRE,TEF,STRND	500271	45"	2 WIRES
	601159	14GA,GRAY	-888		601317
	401916-J32	WIRE,TEF,STRND	500271	32"	GND
602103	601159	14GA,BLK	-000		CRIMP
	401916-J44	WIRE,TEF,STRND	500271	46"	2 WIRES
	601159	14GA,BLK	-000		602103
	401916-J1	WIRE,TEF,STRND	500271	36"	-12V
601317	601159	14GA,VIO	-777		CRIMP
	401916-J12	WIRE,TEF,STRND	500271	45"	2 WIRES
	601159	14GA,VIO	-777		601317
	401916-J3	WIRE,TEF,STRND	500271	36"	+12V
601317	601159	14GA,ORN	-333		CRIMP
	401916-J14	WIRE,TEF,STRND	500271	47"	2 WIRES
	601159	14GA,ORN	-333		601317
	401916-J34	WIRE,TEF,STRND	500271	42"	GND
602103	601159	14GA,BLK	-000		CRIMP
	401916-J41	WIRE,TEF,STRND	500271	39"	2 WIRES
	601159	14GA,BLK	-000		602103
	401916-J10	WIRE,TEF,STRND	520949	47"	-5.2V
600650	601440	20GA,WHT/YEL			SENSE
	401916-J21	WIRE,TEF,STRND	520969	41"	SENSE
600650	601440	20GA,WHT/BLU			RTN
404981-J1-5	401916-J31-5	WIRE,TEF,STRND	523222	36"	VCC
611053 (P1)	601960 (P31)	22GA,RED			
404981-J1-6	401916-J31-6	WIRE,TEF,STRND	523000	36"	GND
611053 (P1)	601960 (P31)	22GA,BLK			
404981-J2-1		WIRE,TEF,STRND	524924	60"	PWR
611053 (P2)	600651	24GA,WHT/YEL/RED			GOOD
404981-J2-2	401916-J39	WIRE,TEF,STRND	523000	27"	PWRGOOD
611053 (P2)	601440	22GA,BLK			REF
404981-J1-1	401916-J31-1	WIRE,TEF,STRND	523333	36"	SYS
611053 (P1)	601960 (P31)	22GA,ORG			RESET
404981-J1-3	401916-J31-3	WIRE,TEF,STRND	523888	36"	PWR
611053 (P1)	601960 (P31)	22GA,GRY			GOOD

SIZE	CODE IDENT NO	DOCUMENT NO	REV
A	21793	407075	H
SCALE ------		SHEET 7 OF 8	

NOTE: THE FAN (921255) LEADS MAY HAVE TO BE LENTHENED.USE 521666,522111 AND 522666.
INSULATE SPLICE. SOLDER AT S400.

---from-------	--to----------	--cond.type,ga,color----	--p/n-----	-lth-	--ref--
S400-1	FAN-F1	WIRE,TEF,STRND	522666	30"	SOLDER
	BLU WIRE	18GA,BLU			WIRE AT
		WIRE,TEF,STRND	521666	30"	S400-1
	601440	16GA,BLU			SPLIT 2 WIRES TO FAN AND LUG
S400-4	FAN-F2	WIRE,TEF,STRND	522666	30"	SOLDER
	BLU WIRE	18GA,BLU			WIRE AT
	S400-2	WIRE,TEF,STRND	522666	30"	S400-4
		18GA,BLU			SPLIT 2 WIRES TO FAN AN S400
S400-5		WIRE,TEF,STRND	521111	32"	AC
	601440	16GA,BRN			LINE
S400-6	FAN-F1	WIRE,TEF,STRND	522111	30"	SOLDER
	BRN WIRE	18GA,BRN			WIRE AT
	FAN-F2	WIRE,TEF,STRND	522111	30"	S400-6
	BRN WIRE	18GA,BRN			SPLIT 2 WIRES TO FAN AN FAN2

SIZE	CODE IDENT NO	DOCUMENT NO	REV
A	21793	407075	H
SCALE ------		SHEET 8 OF 8	



NOTES:

1. SMOOTH SIDE OF PUNCH STRIP (ITEM 5) TO BE INSTALLED FACING OUT.
2. PLACE BUMPER (ITEM 53) APPROX. WHERE SHOWN.
3. INSTALL FILTERS (ITEM 34) BEFORE SECURING RETAINER (ITEM 8) WITH SCREW (ITEM 39).
4. LOCTITE (ITEM 54) TO BE USED WHERE MECHANICAL LOCKING HARDWARE (SEMS, LOCKWASHER, ETC.) ARE NOT SPECIFIED (SELF TAPPING SCREWS EXCEPTED).

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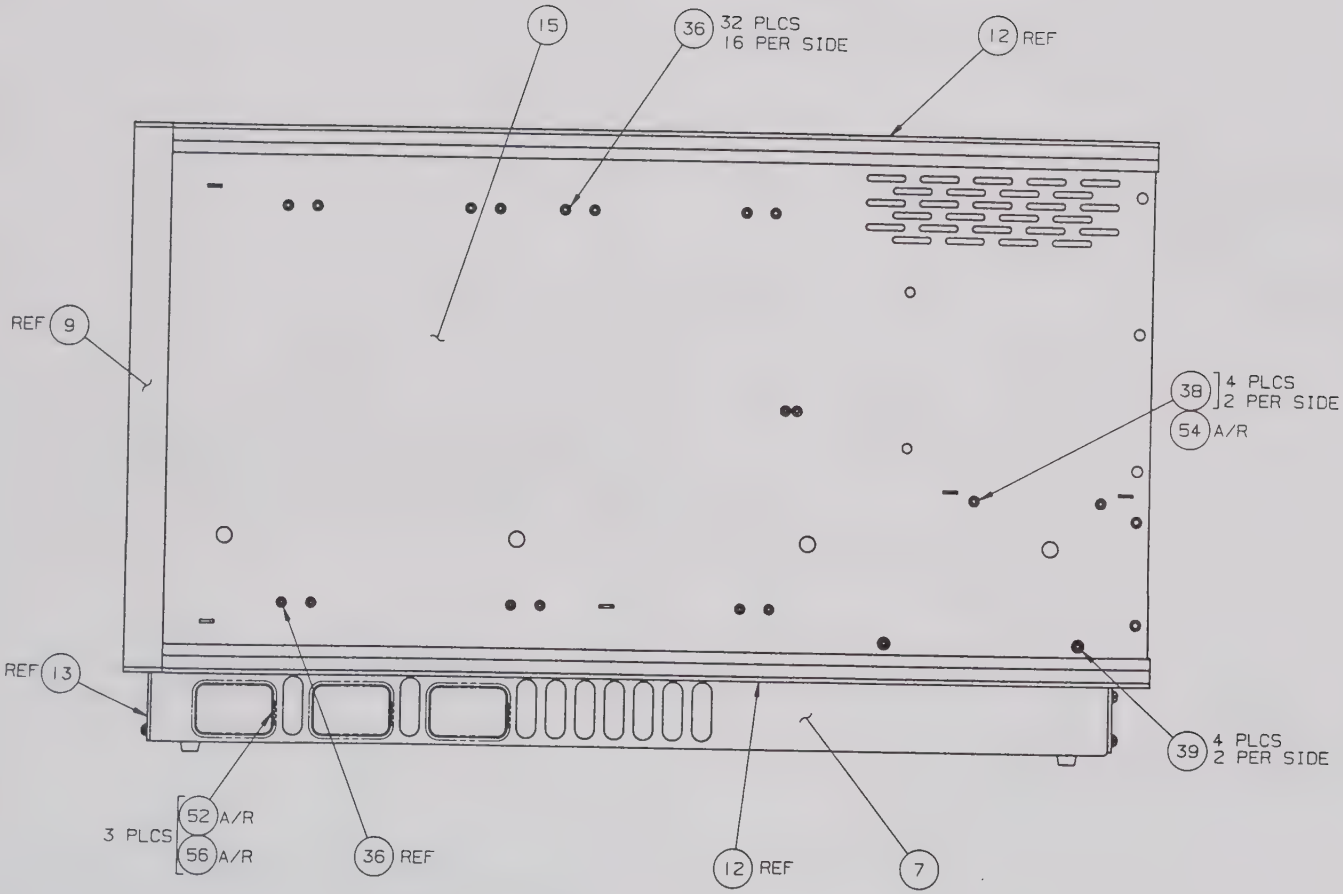
RACAL Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002

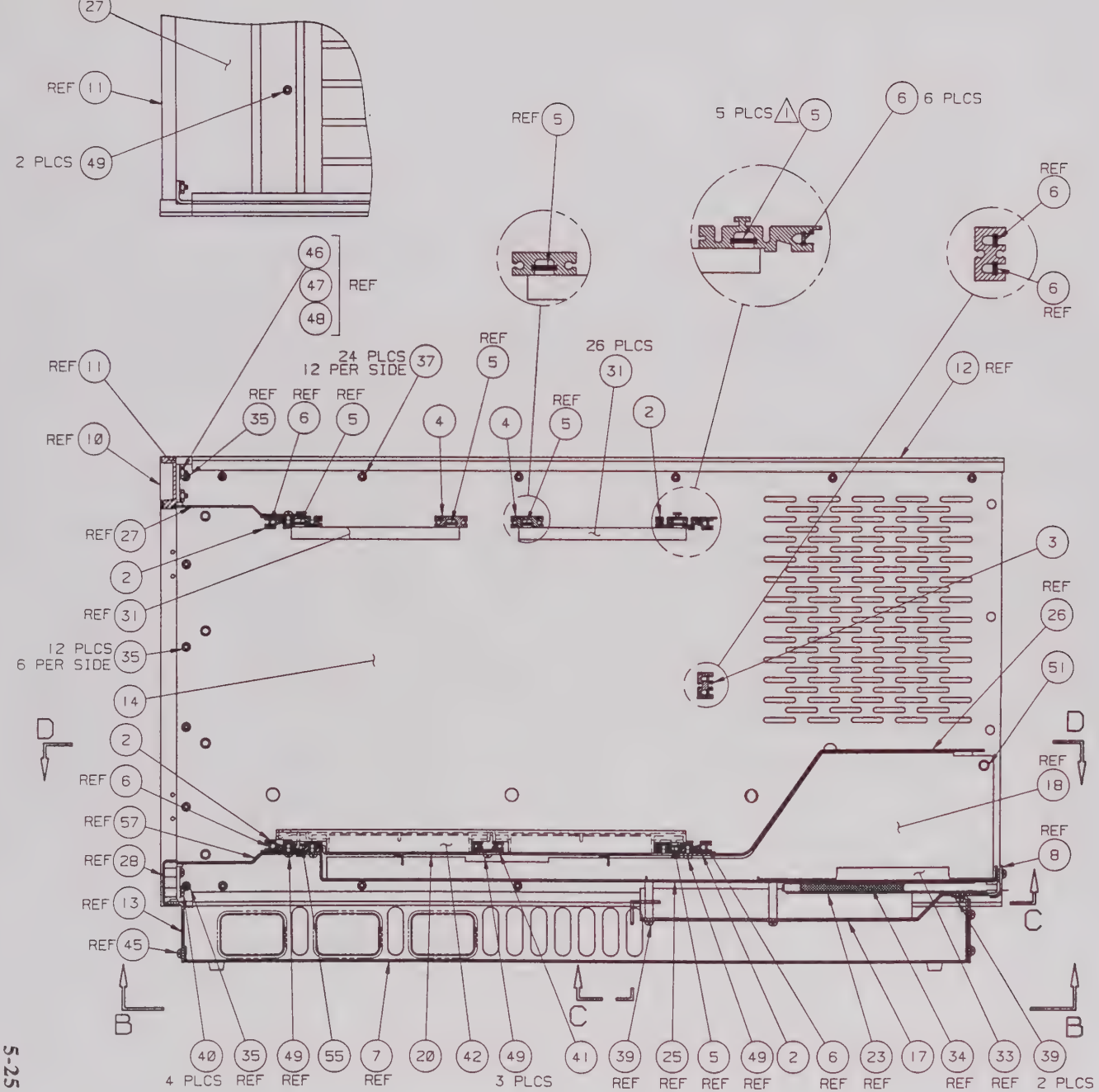
TITLE
CHASSIS ASSY, 1261A

SIZE	CAGE CODE	DWG NO.	REV.
D	21793	407037-004	A

SCALE 1:2 | CALC. VT | ACT. VT | SHEET 1 OF 7



SIZE	CAGE CODE	DWG NO.	REV.
D	21793	407037-004	A
SCALE 1:2		CALC. VT ACT. VT SHEET 2 OF 7	



SECT. A-A

SIZE	CAGE CODE	DWG NO.	REV.
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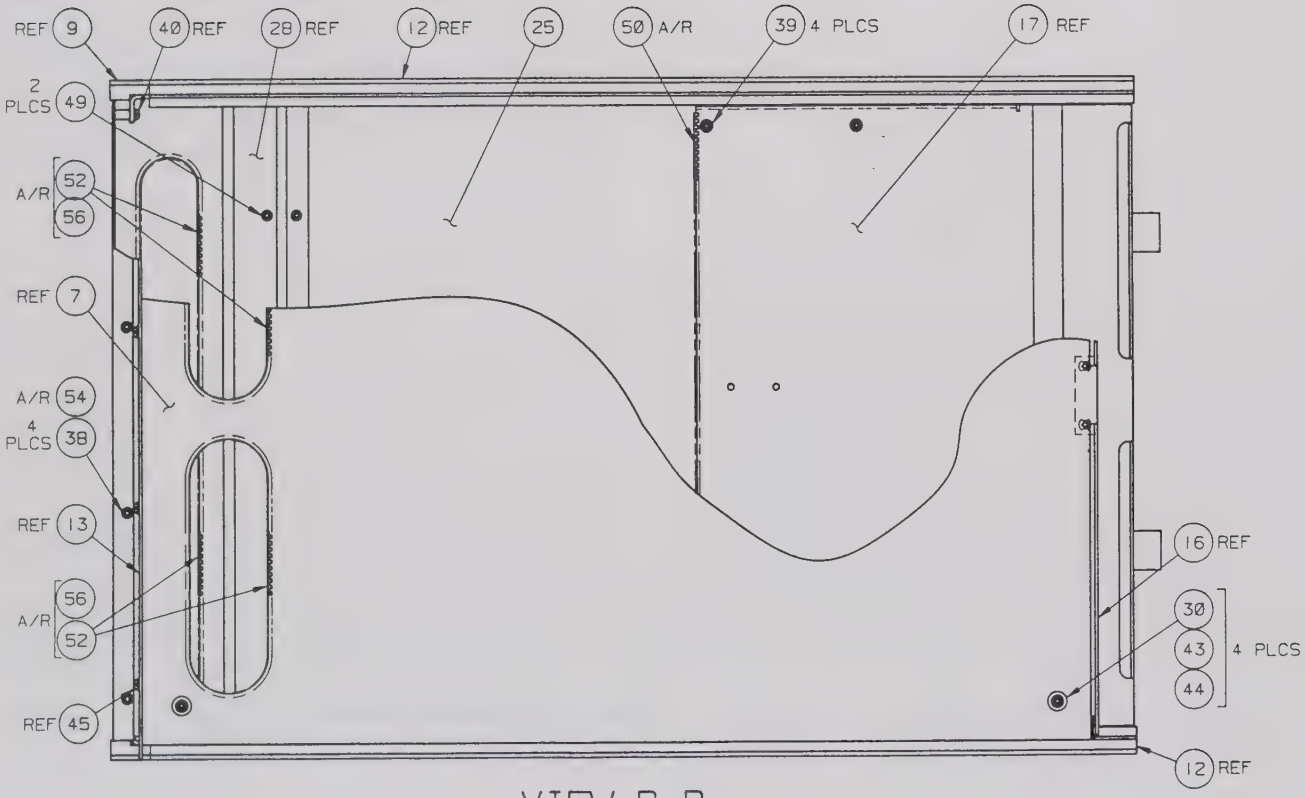
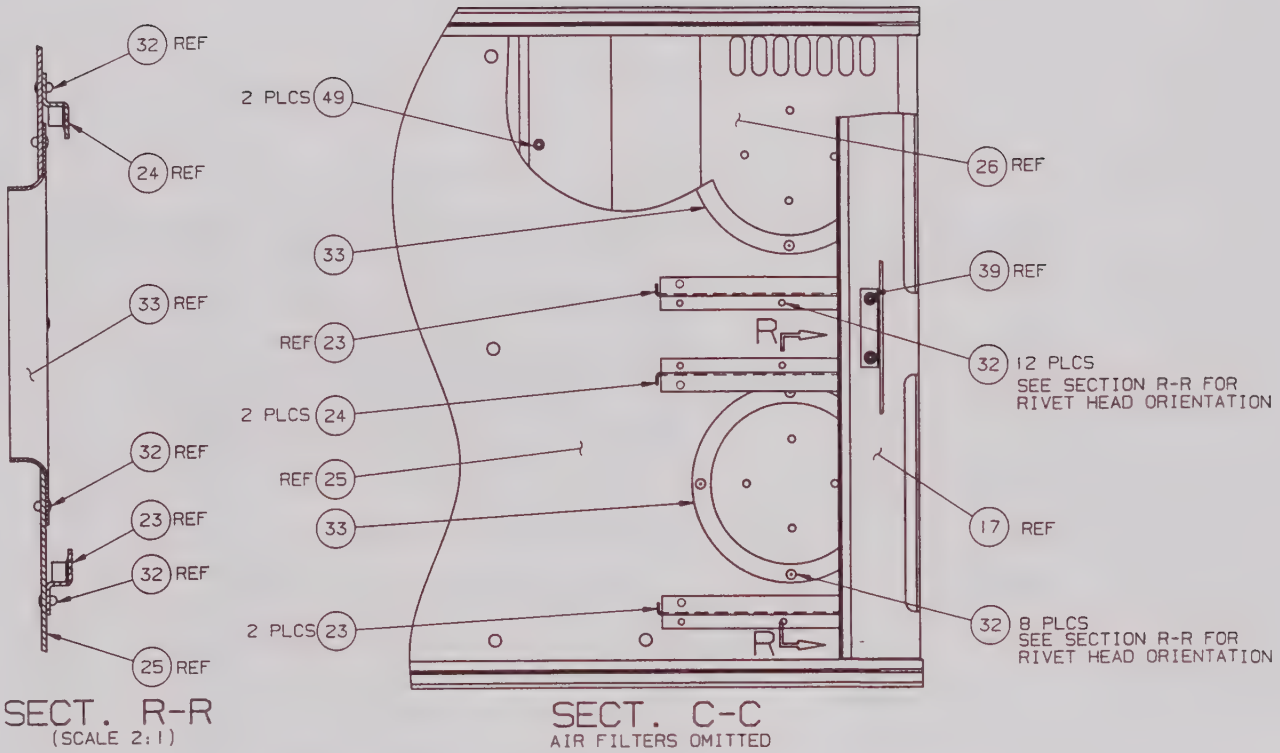
SCALE 1:2		CALC. YT / ACT. YT	SHEET 3 OF 7



VIEW B-B

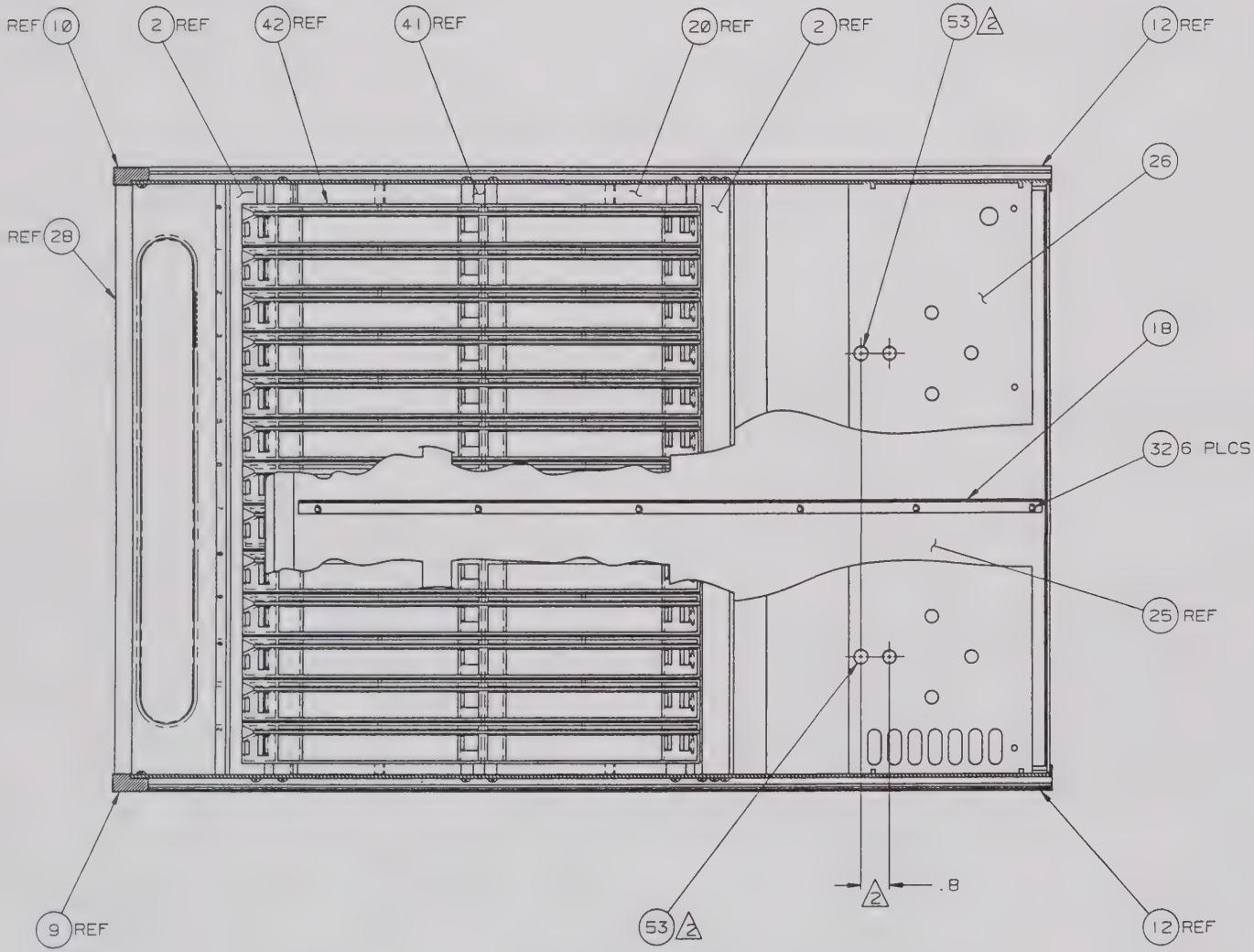
SIZE	CAGE CODE	DWG NO.	REV.
D	21793	407037-004	A
SCALE 1:2		CALC. VT / ACT. VT	SHEET 4 OF 7



SECT. R-R
(SCALE 2:1)

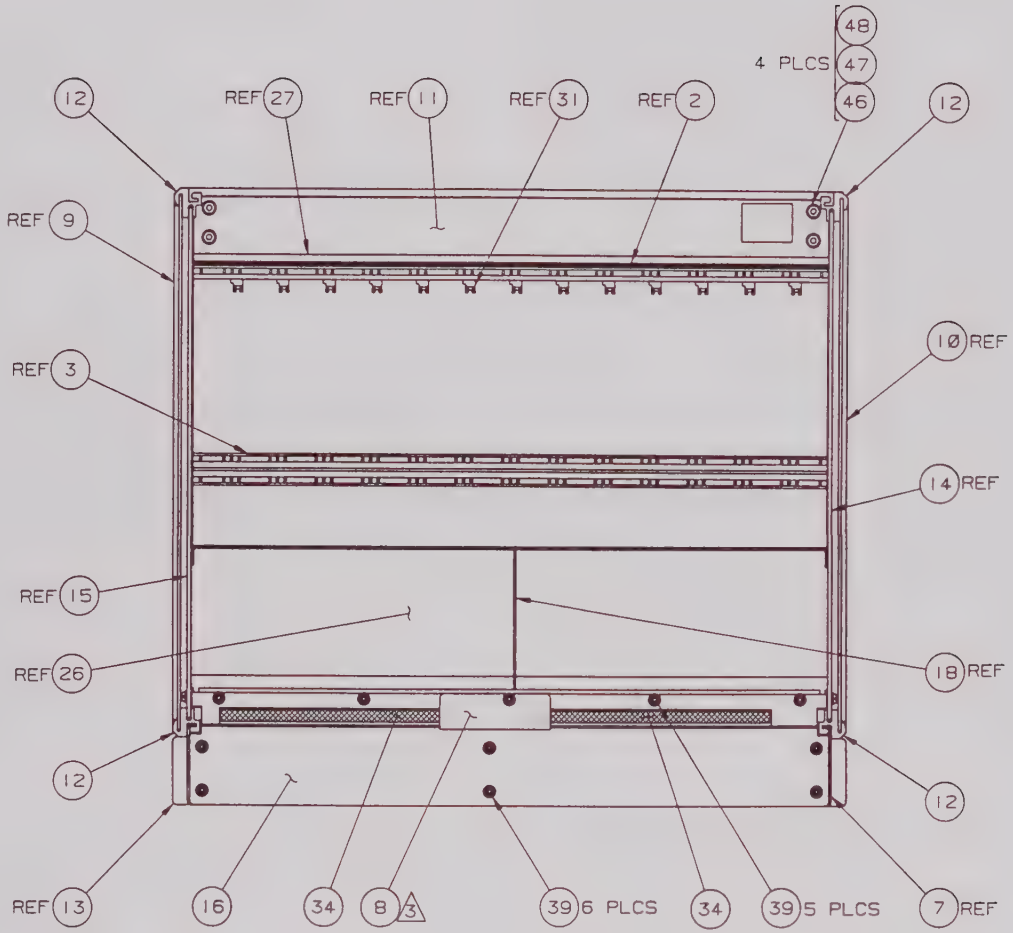
SECT. C-C
AIR FILTERS OMITTED

SIZE	CAGE CODE	DWG NO.	REV.
D	21793	407037-004	A
SCALE 1:2		CALC. VT / ACT. VT	SHEET 5 OF 7



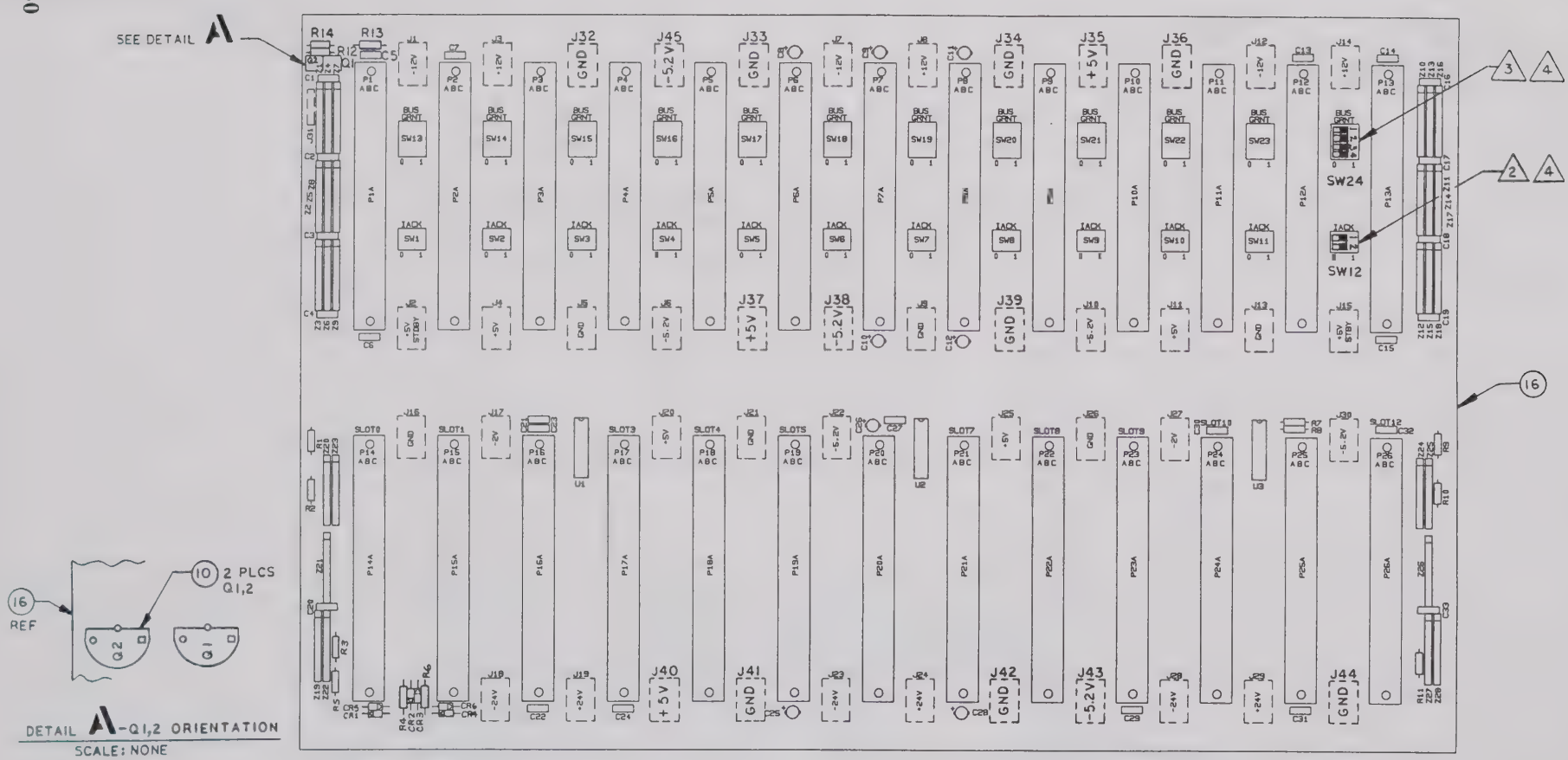
SECT. D-D

SIZE	CAGE CODE	DWG NO.	REV.
D	21793	407037-004	A
SCALE 1:2		CALC. VT ACT. VT	SHEET 6 OF 7



REAR VIEW

SIZE	CAGE CODE	DWG NO.	REV.
D	21793	407037-004	A
SCALE 1:2		CALC.WT ACT.WT SHEET 7 OF 7	



DETAIL A-Q1,2 ORIENTATION
SCALE: NONE

401916	PCBA, VXI BACKPLANE, WITH DIP SWITCHES
401916-001	PCBA, VXI BACKPLANE, WITHOUT DIP SWITCHES
DOCUMENT NO.	DOCUMENT TITLE

4. APPLY A SMALL BEAD OF ADHESIVE (ITEM 36) ALONG CENTERLINE OF COMPONENT BASE. INSERT COMPONENT AND SEAT FIRMLY IN PLACE. ALLOW ADHESIVE TO CURE A MINIMUM OF 5 MINUTES AND VERIFY BOND BY ACTIVATING SWITCH. (401916 ONLY)

3. 401916-001 ONLY - SWITCHES SW13-24, NOT INSTALLED.
401916 ONLY - ITEM 23, SW13-24, SWITCHES 1,2,3,4 TO BE IN CLOSED POSITION.

2. 401916-001 ONLY - SWITCHES SW1-12, NOT INSTALLED.
401916 ONLY - ITEM 20, SW1-12, SWITCHES 1 AND 2 TO BE IN CLOSED POSITION.

1. REFERENCE SCHEMATIC 431916.

NOTES UNLESS OTHERWISE SPECIFIED

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4 Goodyear St., Irvine, CA. 92718-2002

DOCUMENT TITLE			
PCB ASSY, VXI BK. PLN			
SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
D	21793	401916,-001	H
SCALE —		SHEET 1 OF 3	

HIGHEST REF. DES.
C33
CR6
J45
P26
Q2
R14
SW24
U3
Z28

U1, 2, 3	MC10H11	1, 16	8
REF. DES.	IC TYPE	GND PIN NO.	-5.2V PIN NO.
IC POWER AND GROUND CONNECTIONS			

4. 401916-001 ONLY CONNECTOR INCLUDES INTEGRAL SWITCH MATING CONNECTOR IS REMOVED, THE FOLLOWING CONNECTIONS ARE MADE AUTOMATICALLY:
   1) PIN 21 IS CONNECTED TO PIN 22.
   2) PIN 4 IS CONNECTED TO PIN 5.
   3) PIN 6 IS CONNECTED TO PIN 7.
   4) PIN 8 IS CONNECTED TO PIN 9.
   5) PIN 10 IS CONNECTED TO PIN 11.

3. PART NOT INSTALLED ON 401916-001 ONLY.

2. RESISTOR VALUES ARE IN OHMS, 1/4W +/-5%

1. CAPACITOR VALUES ARE IN MICROFARADS, 100V, +/-5%

NOTES: UNLESS OTHERWISE SPECIFIED

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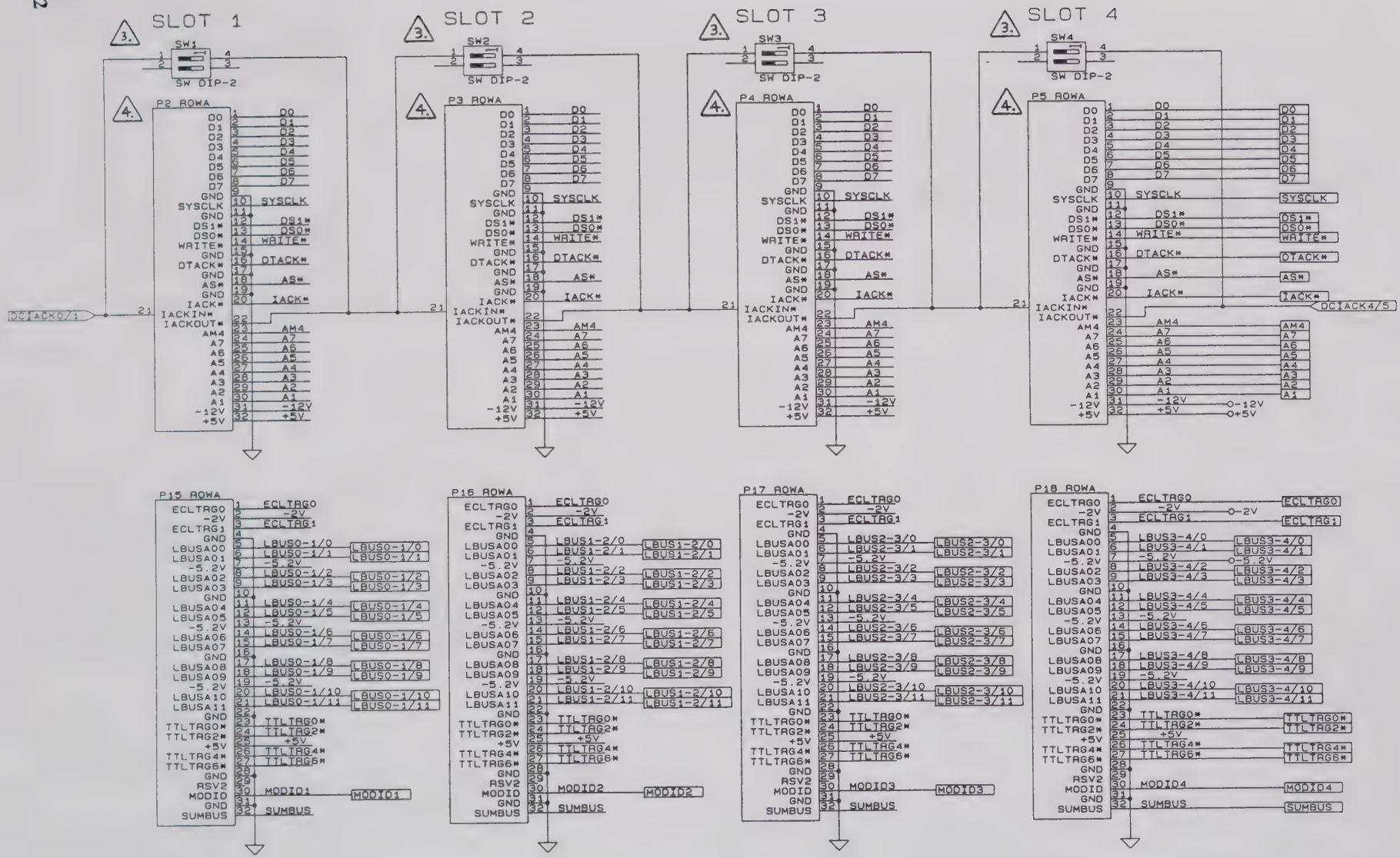
Racal Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002

DOCUMENT TITLE

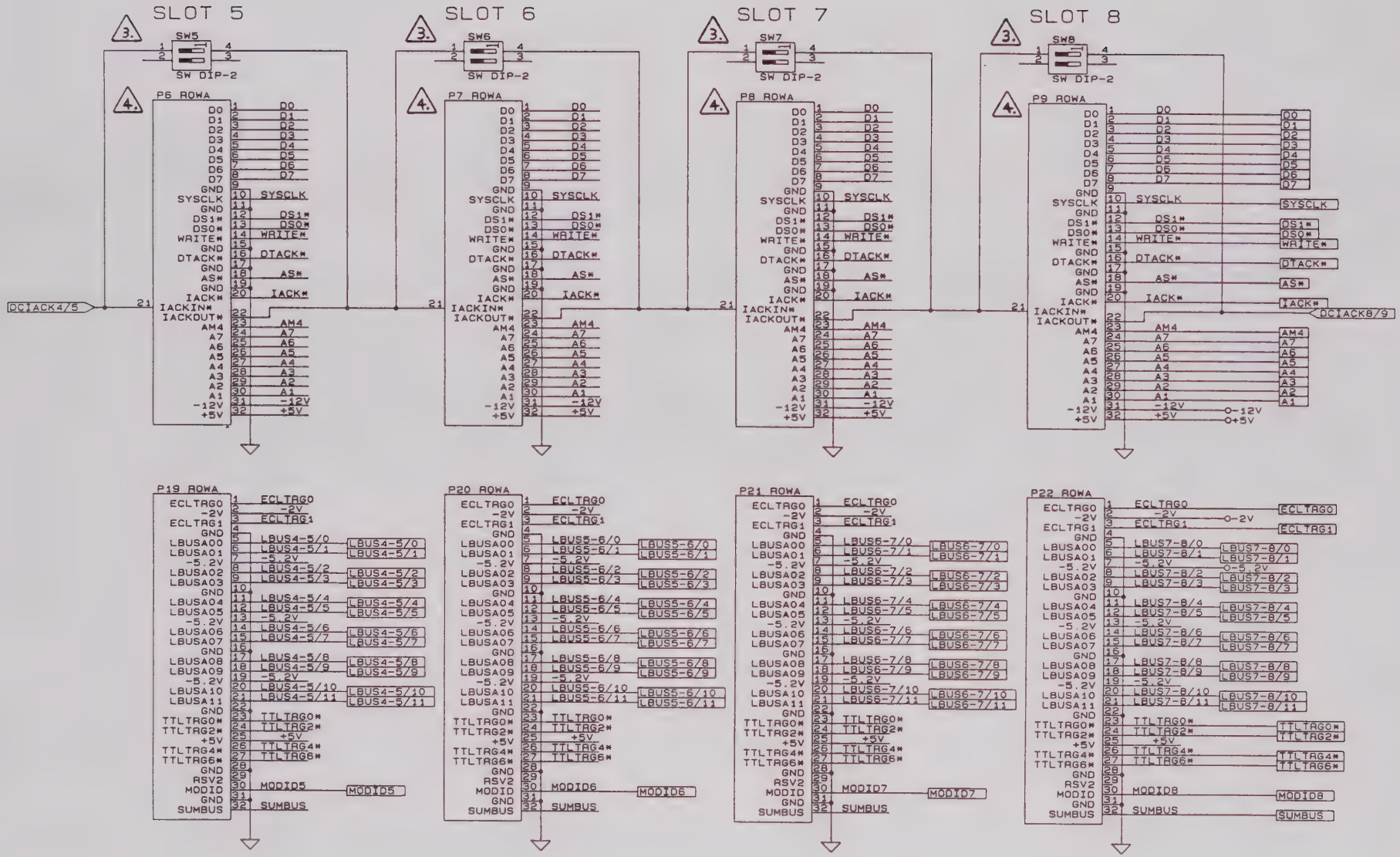
SCHEM., VXI BACKPLANE B/C SIZE

SIZE	CODE IDENT NO	DOCUMENT NO	REV
B	21793	431916	D

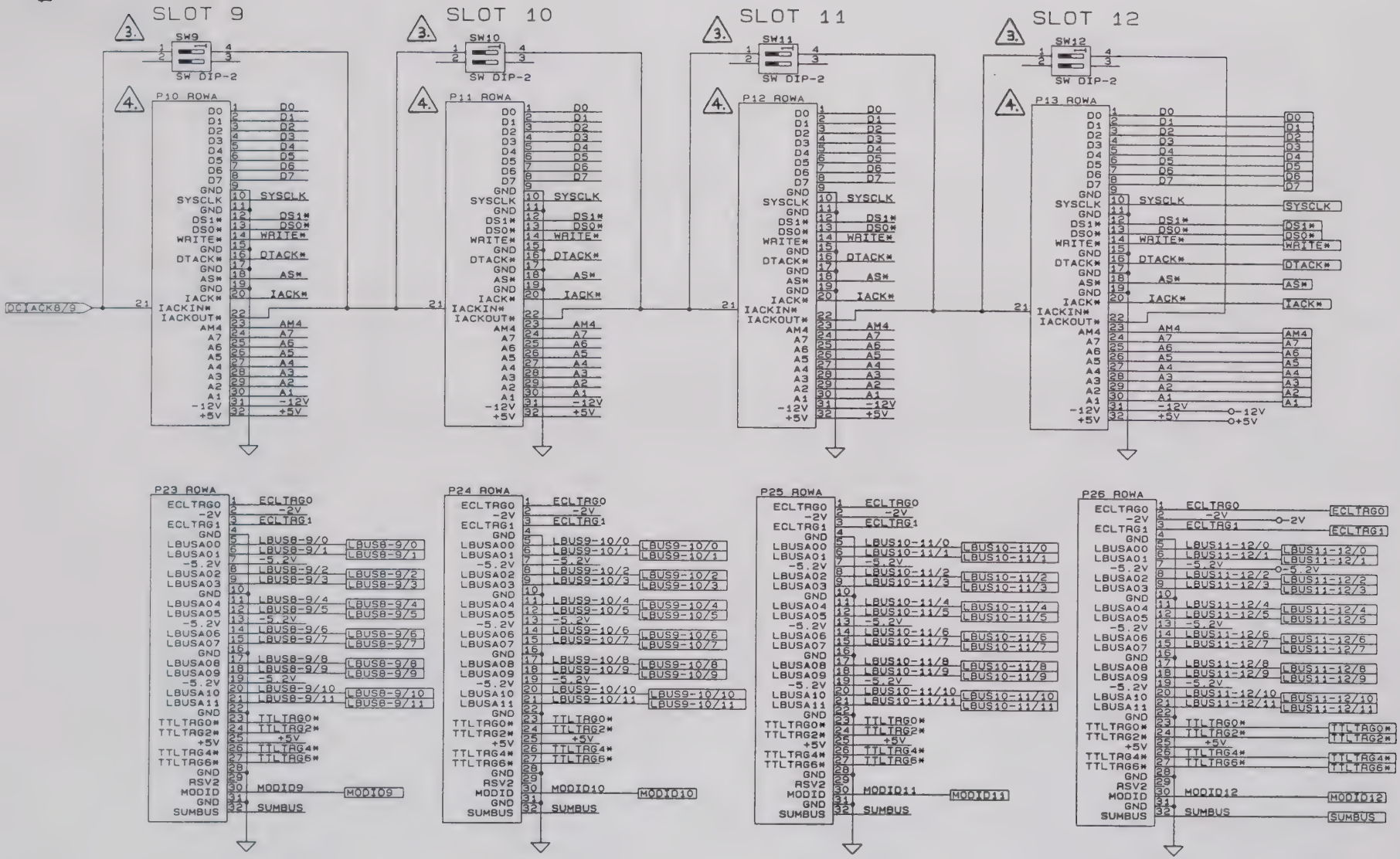
SCALE ——— SHEET 1 OF 13



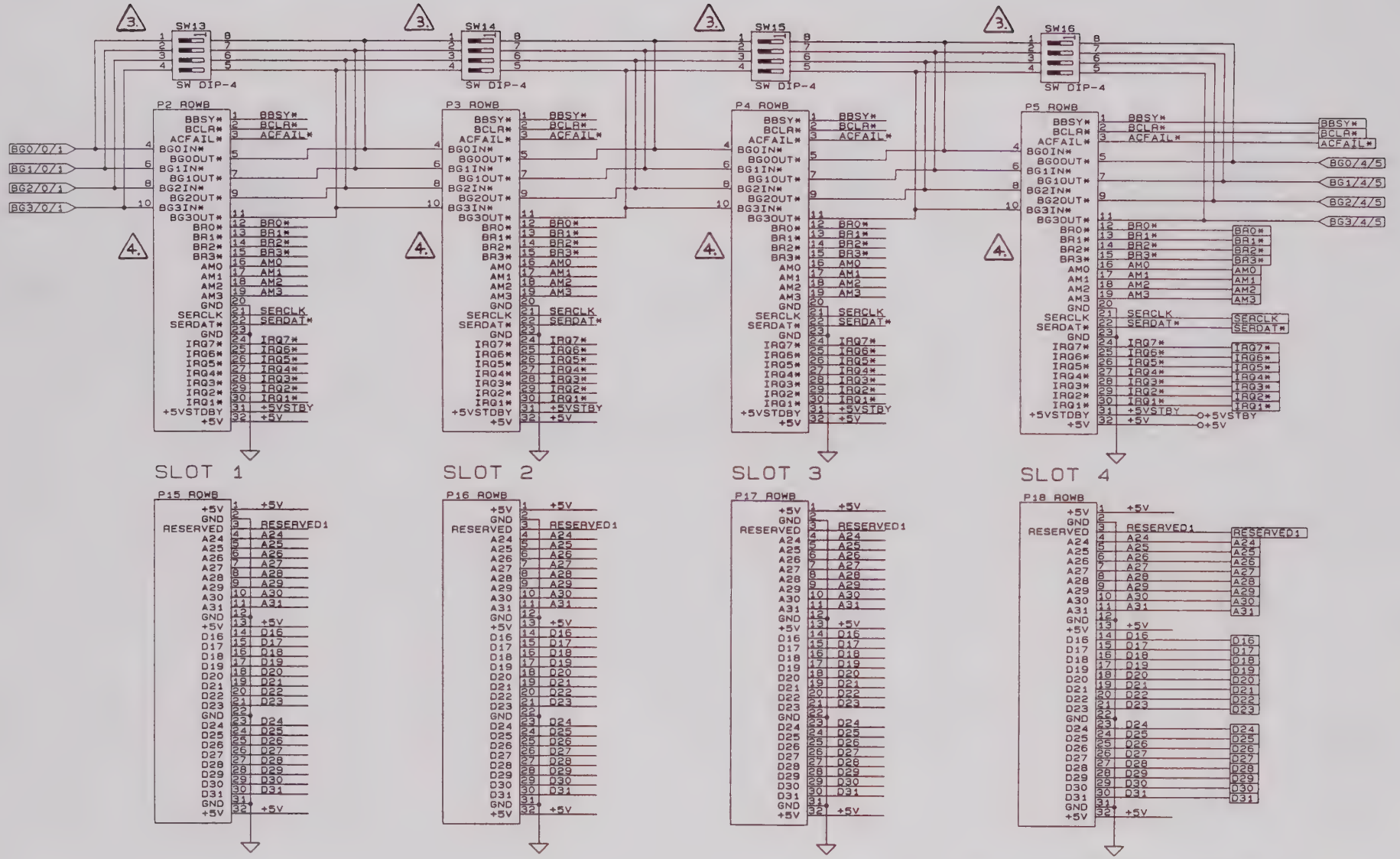
SIZE	CODE IDENT NO.	DOCUMENT NO.	REV
B	21793	431916	D
SCALE		SHEET 2 OF 13	



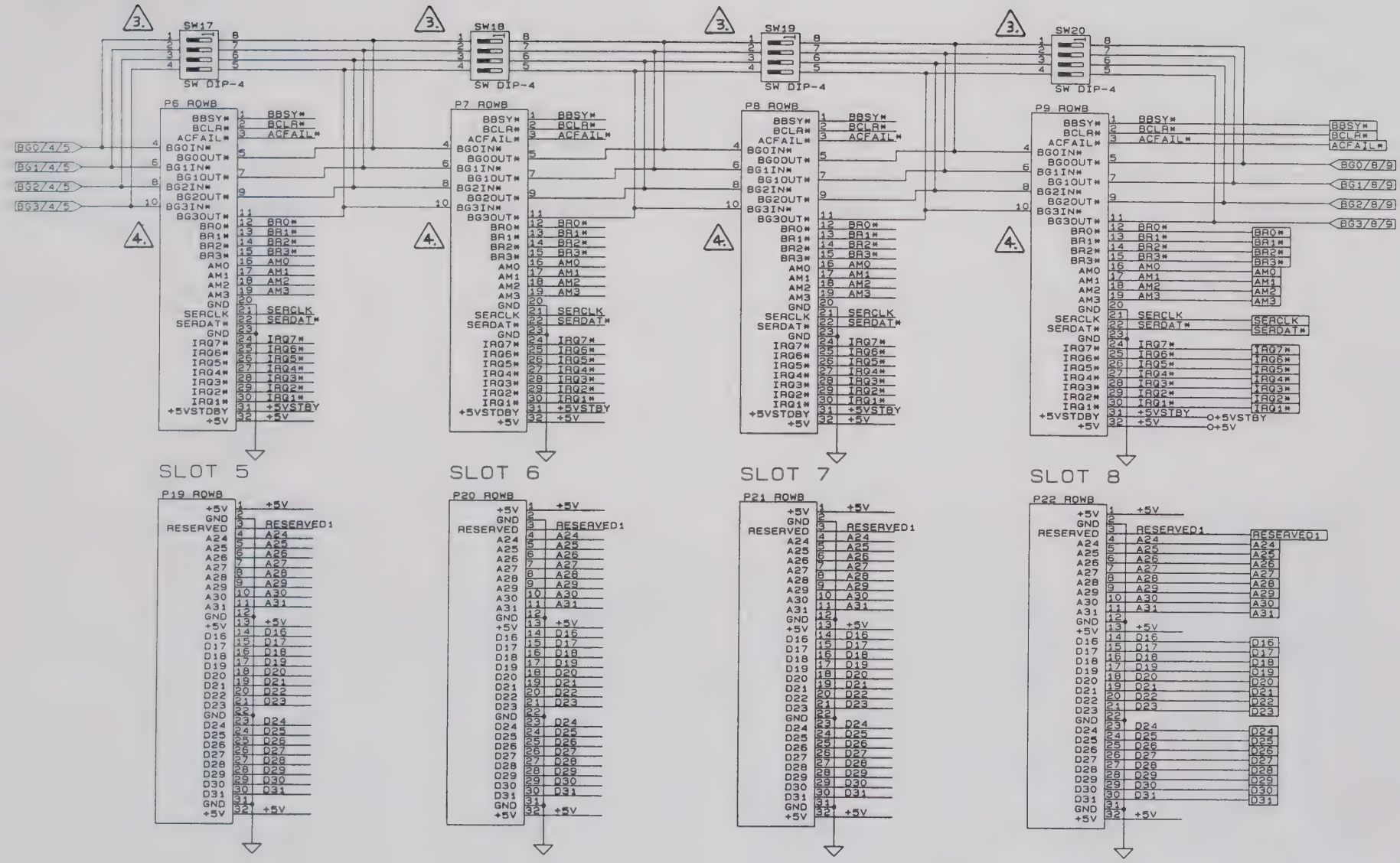
SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
B	21793	431916	D
SCALE		SHEET 3 OF 13	



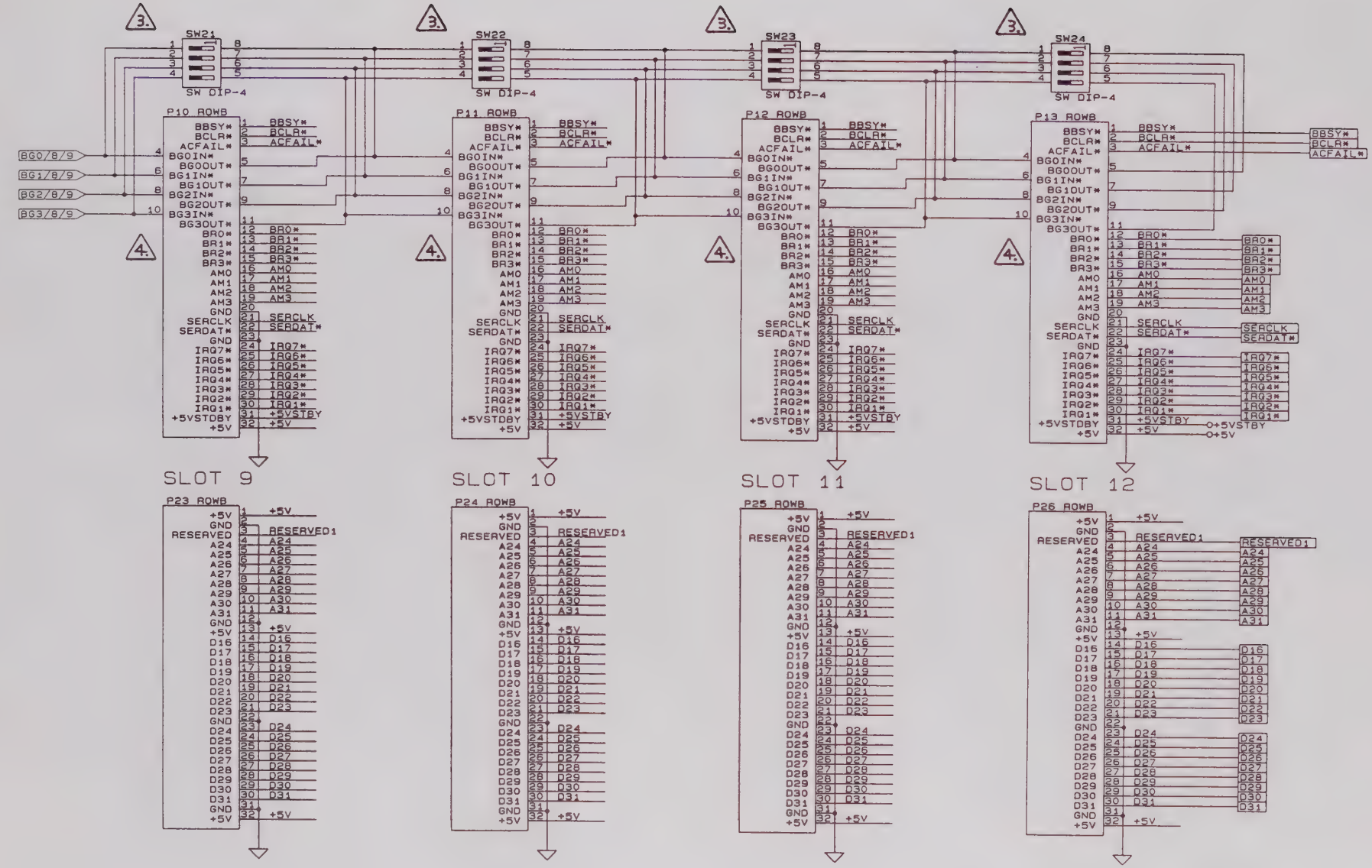
SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
B	21793	431916	D
SCALE		SHEET 4 OF 13	



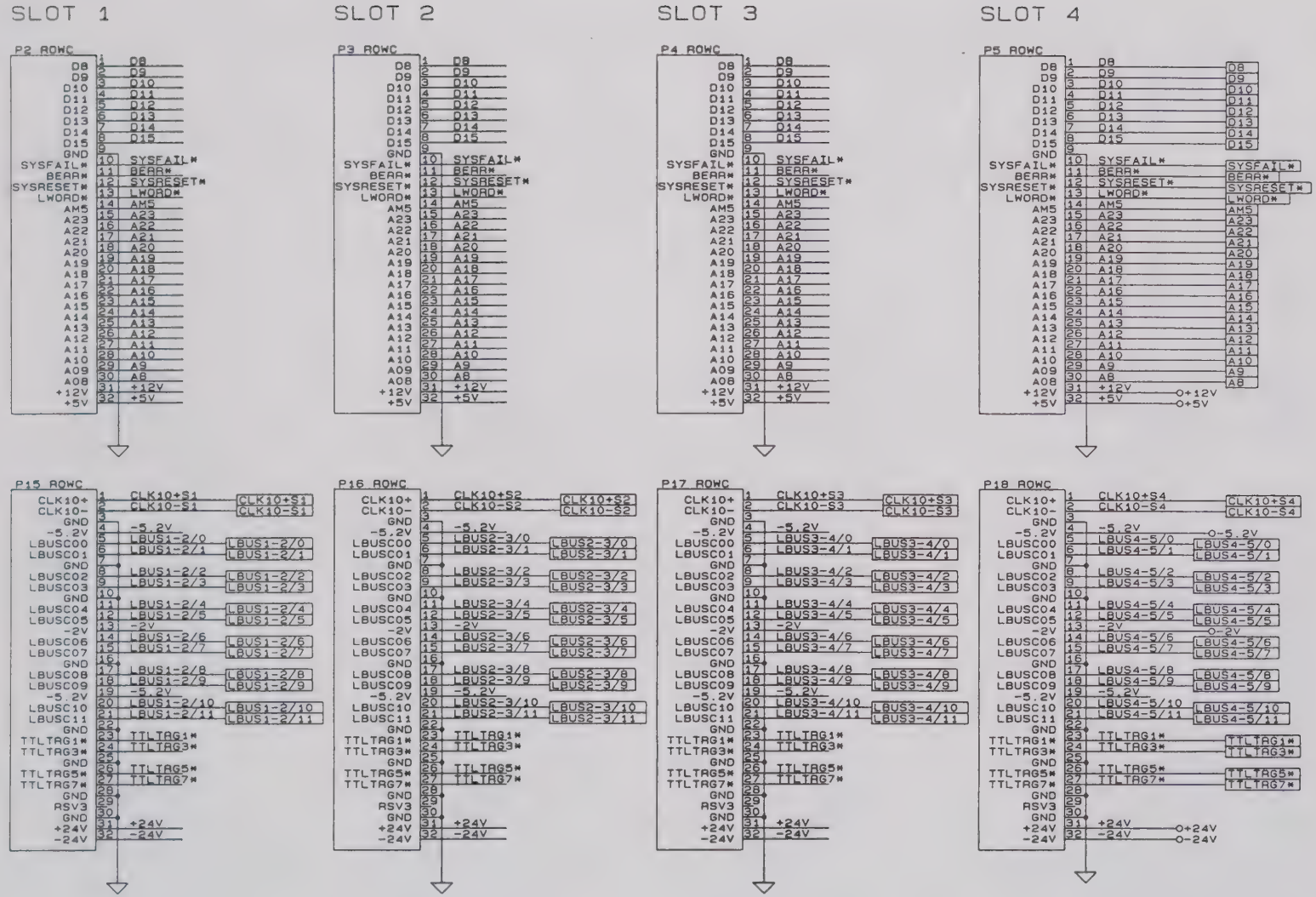
SIZE	CODE IDENT NO.	DOCUMENT NO.	REV
B	21793	431916	D
SCALE		SHEET 5 OF 13	



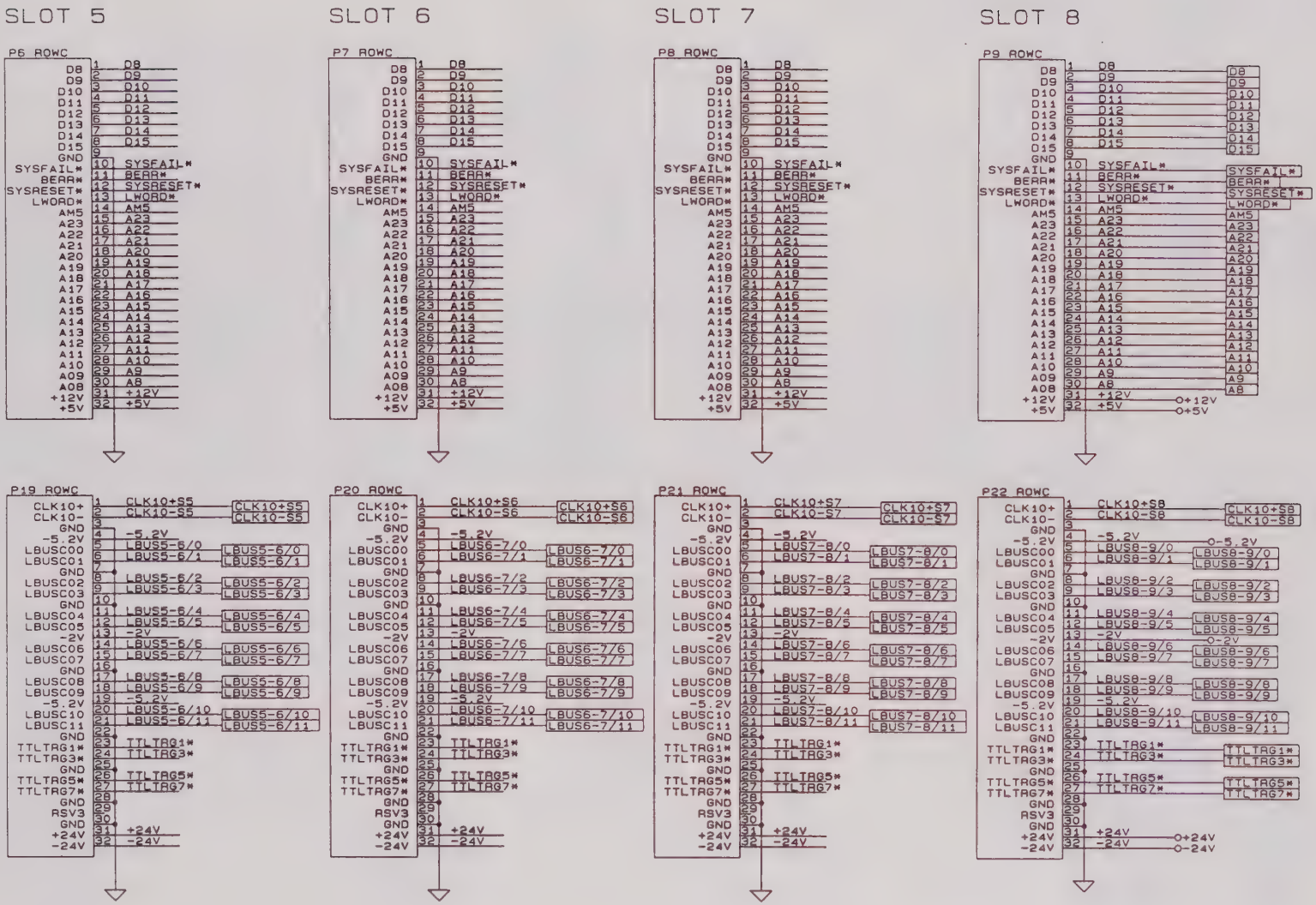
SIZE	CODE IDENT NO.	DOCUMENT NO	REV
B	21793	431916	D
SCALE		SHEET 6 OF 13	



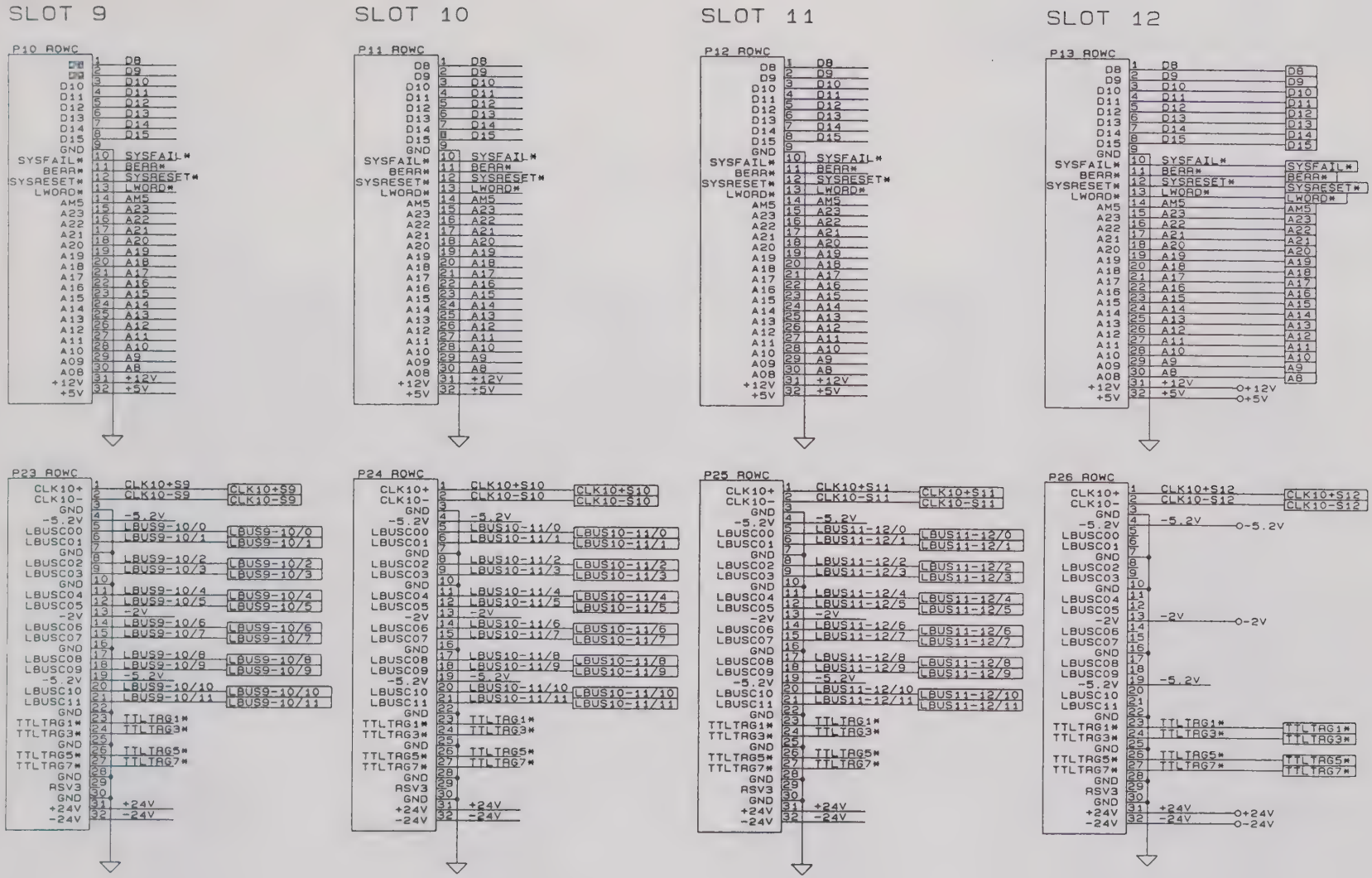
SIZE	CODE IDENT NO.	DOCUMENT NO.	REV
B	21793	431916	D
SCALE		SHEET 7 OF 13	



SIZE	CODE IDENT NO.	DOCUMENT NO.	REV
B	21793	431916	D
SCALE		SHEET 8 OF 13	

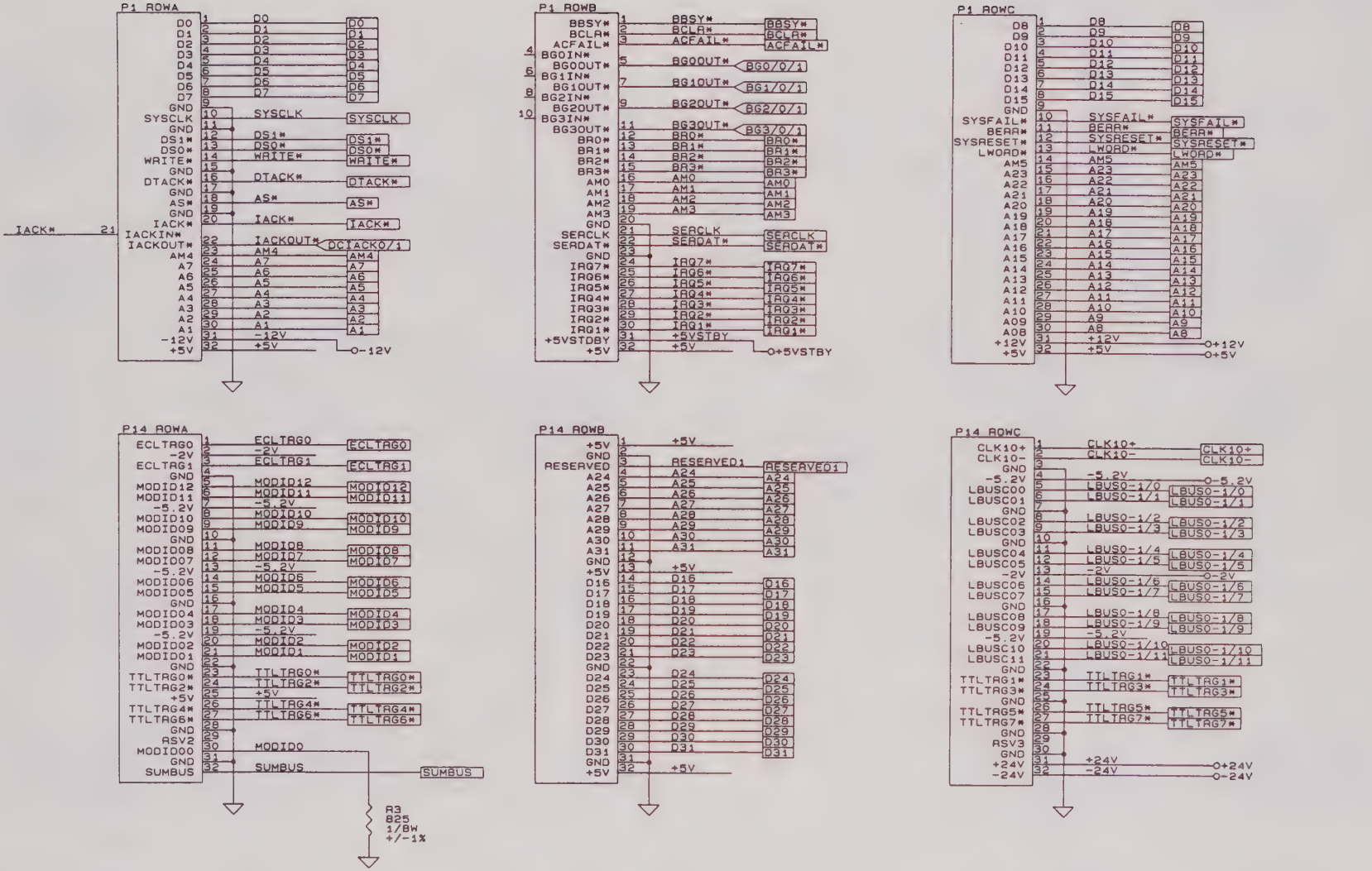


SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
B	21793	431916	D
SCALE		SHEET 9 OF 13	

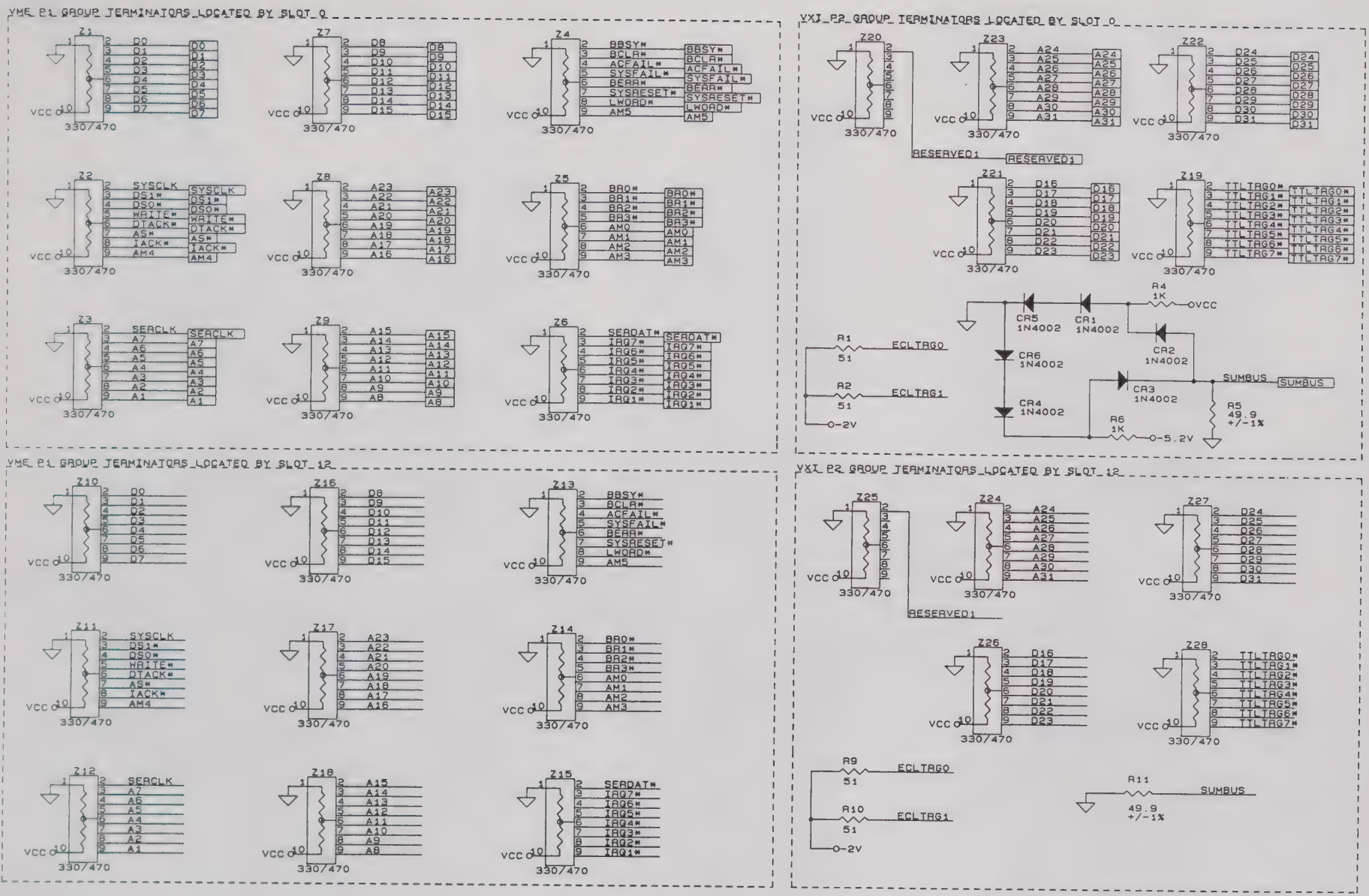


SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
B	21793	431916	D
SCALE		SHEET 10 OF 13	

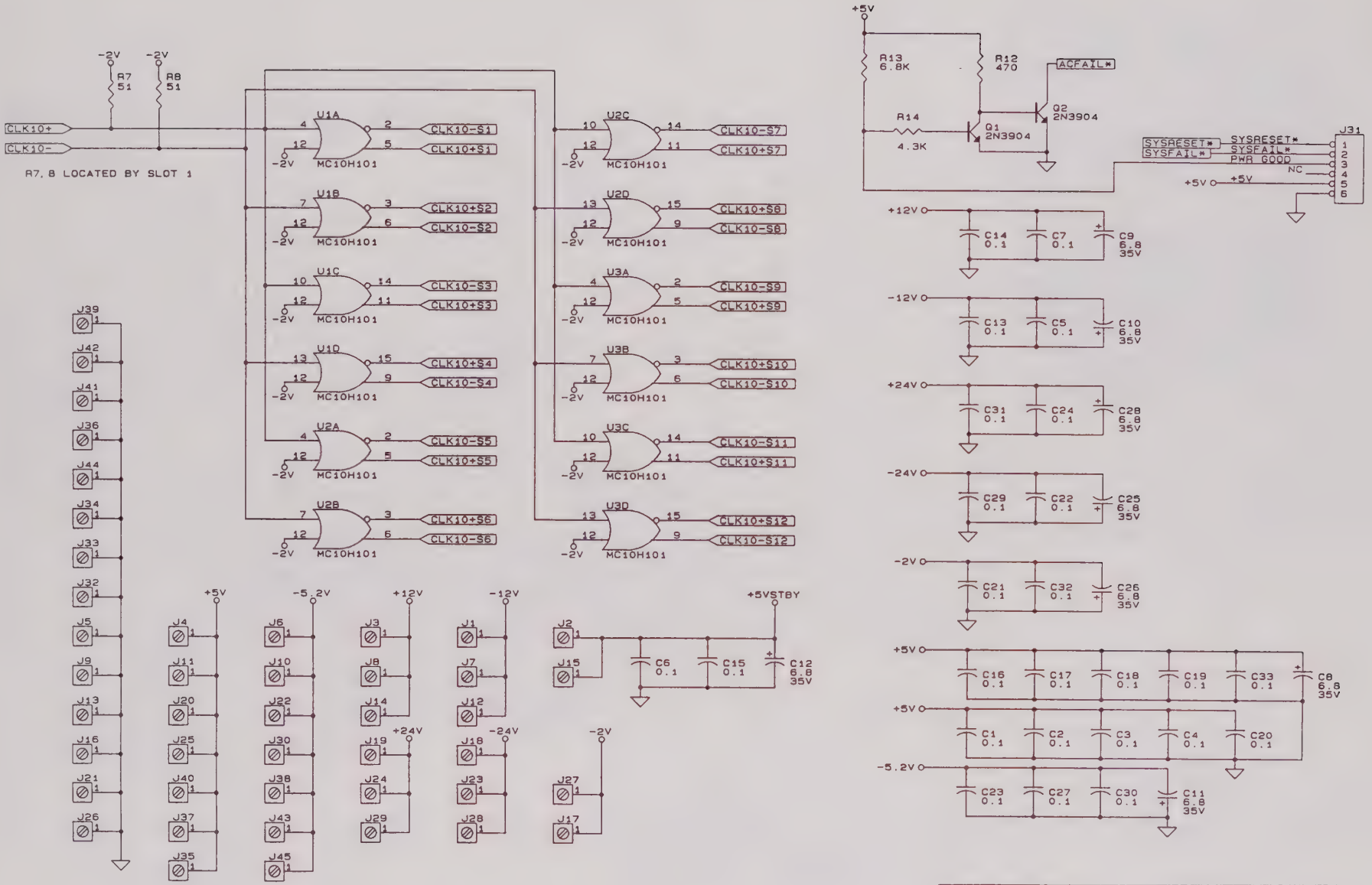
SLOT 0



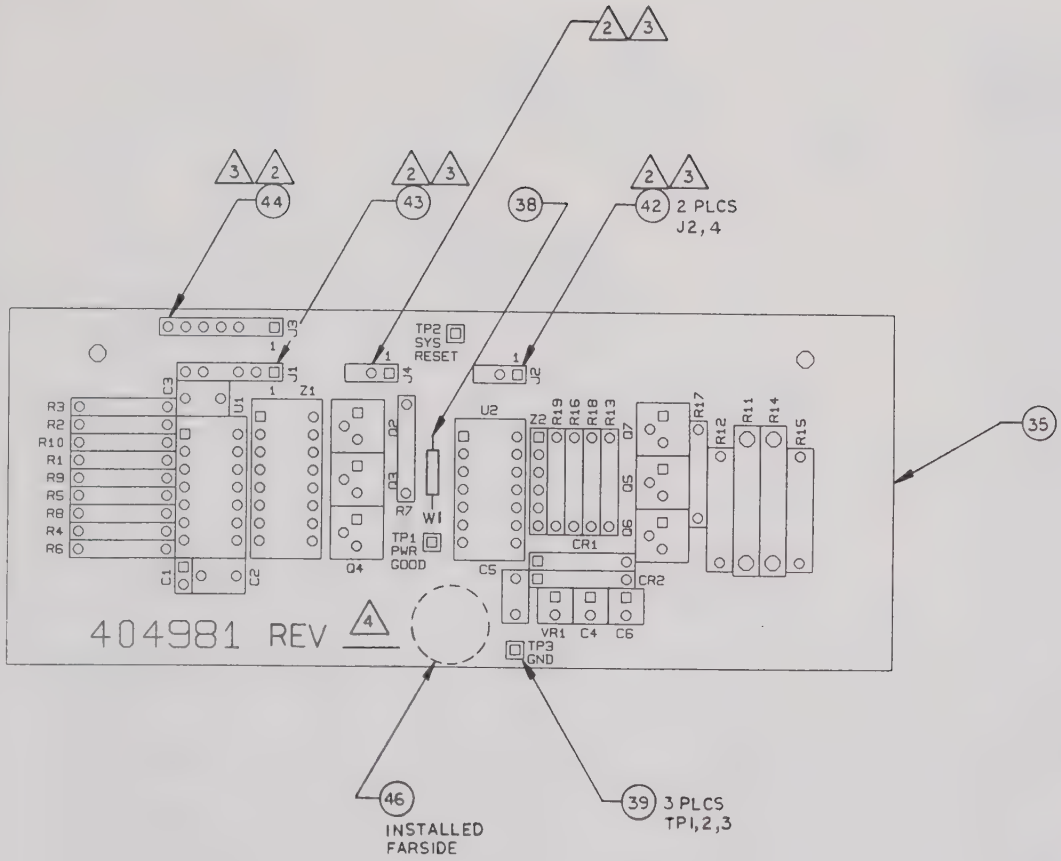
SIZE	CODE IDENT NO.	DOCUMENT NO.	REV
B	21793	431916	D
SCALE		SHEET 11 OF 13	



SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
B	21793	431916	D
SCALE		SHEET 12 OF 13	



SIZE	CODE IDENT NO.	DOCUMENT NO.	REV
B	21793	431916	D
SCALE		SHEET 13 OF 13	



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4 INK STAMP CURRENT REVISION ON COMPONENT SIDE APPROX. WHERE SHOWN.

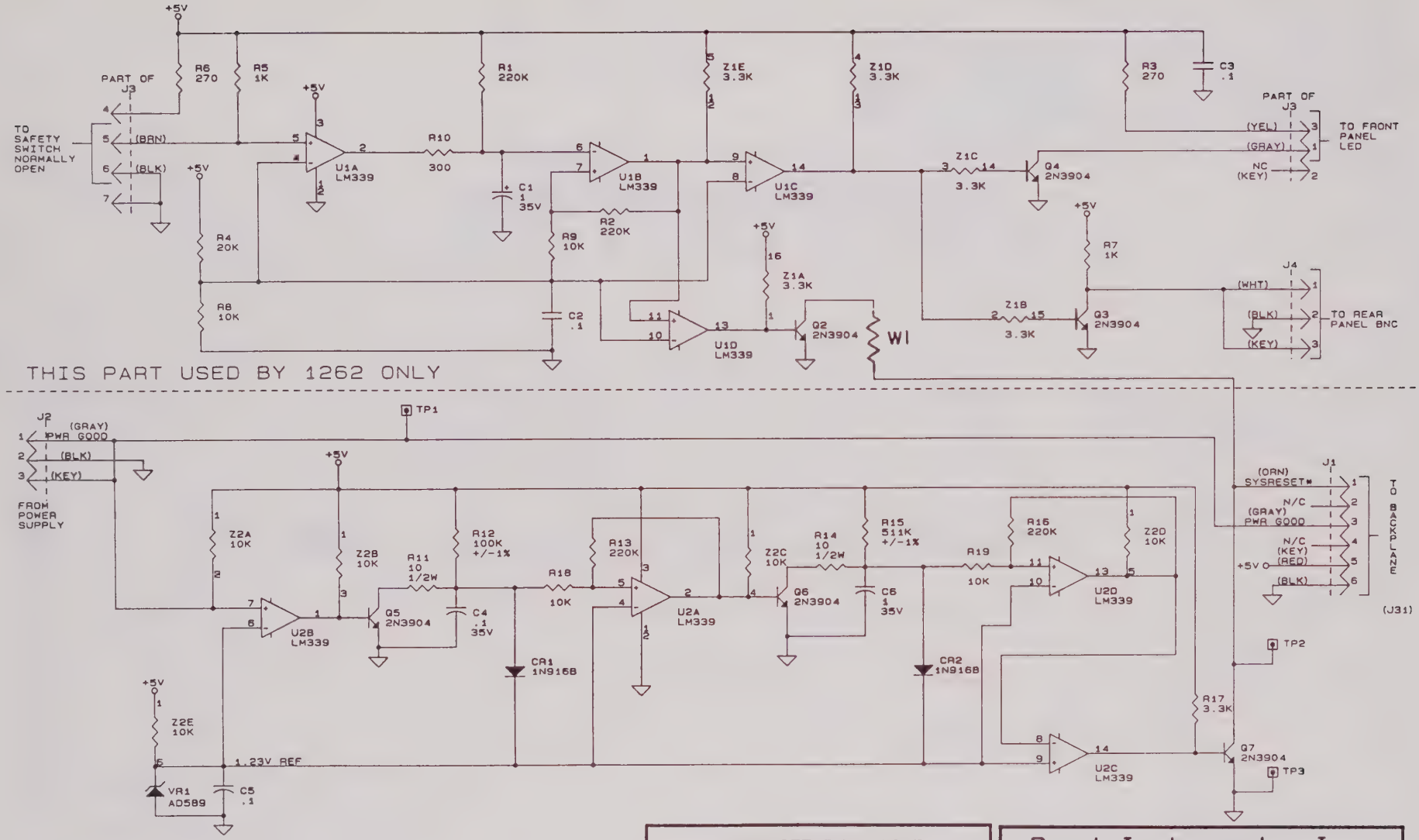
3 REMOVE PIN 4 OF J1, PIN 3 OF J2, PIN 2 OF J3, PIN 3 OF J4.

2 INSTALL WITH SHORT PINS IN PC BOARD.

1. REFERENCE SCHEMATIC 432192.

NOTES UNLESS OTHERWISE SPECIFIED

Racal Instruments, Inc.			
4 Goodyear St., Irvine, CA. 92718-2002			
DOCUMENT TITLE			
PCB ASSY, PWR. MON. 1261/62			
SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
D	21793	404981	B
SCALE 2/1		SHEET 1 OF 2	



2. RESISTORS ARE IN OHMS, 1/4W, +/-5%

1. CAPACITOR VALUES ARE IN MICROFARADS, +/-20%, 100V

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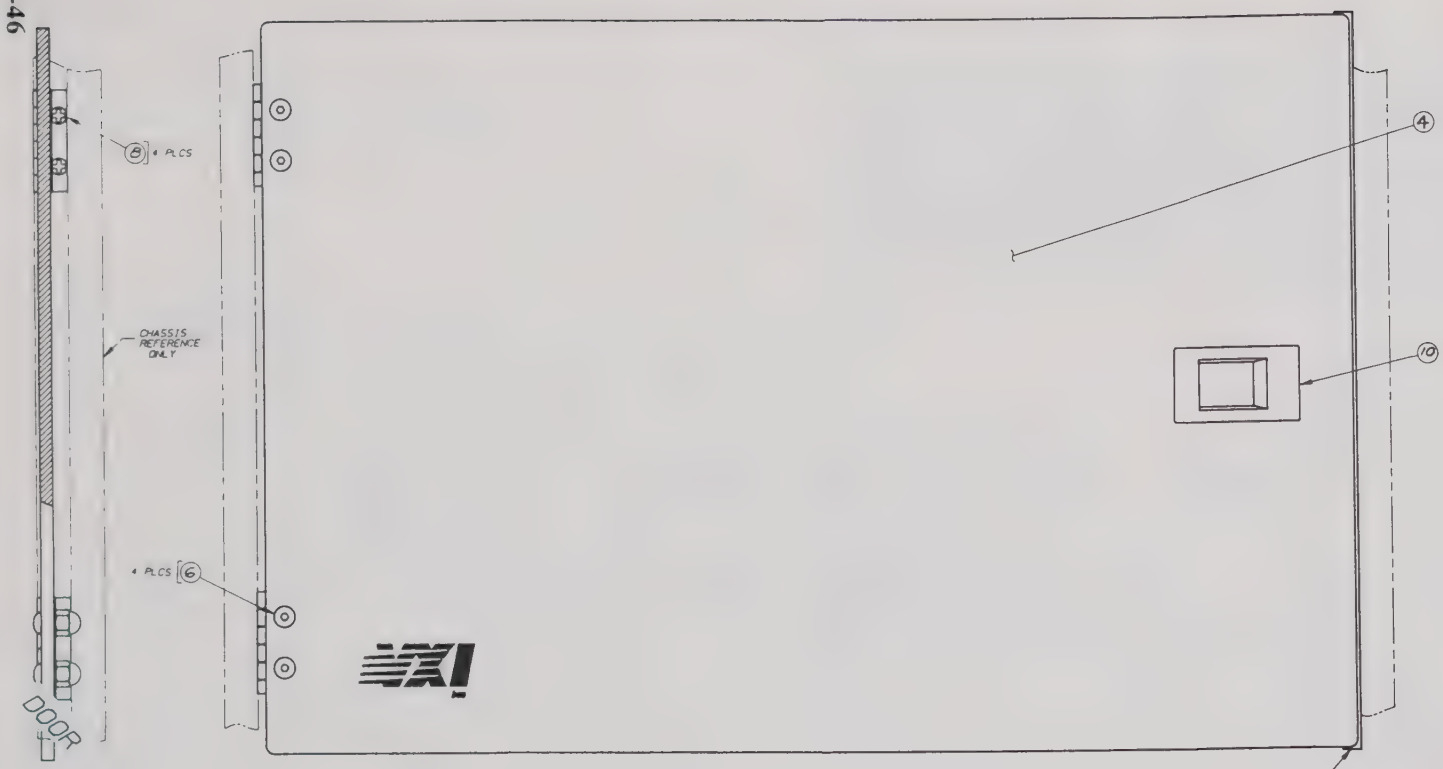
4 Goodyear St., Irvine, CA. 92718-2002

DOCUMENT TITLE
SCHEM. PWR. MON. 1261/2

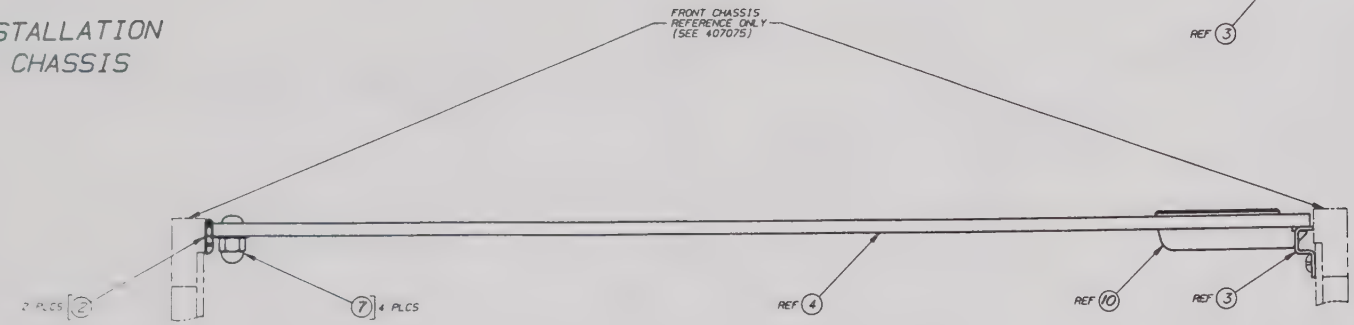
SIZE	CODE IDENT NO.	DOCUMENT NO.	REV.
B	21793	432192	B

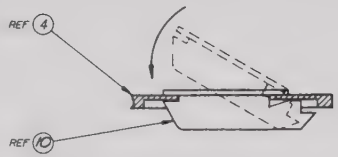
SCALE —— SHEET 1 OF 1



INSTALLATION ON CHASSIS

LATCH RETAINER INSTALLATION ON CHASSIS





DOOR LATCH INSTALLATION

1 USE EXISTING HARDWARE FOR MOUNTING OF ITEM 3.

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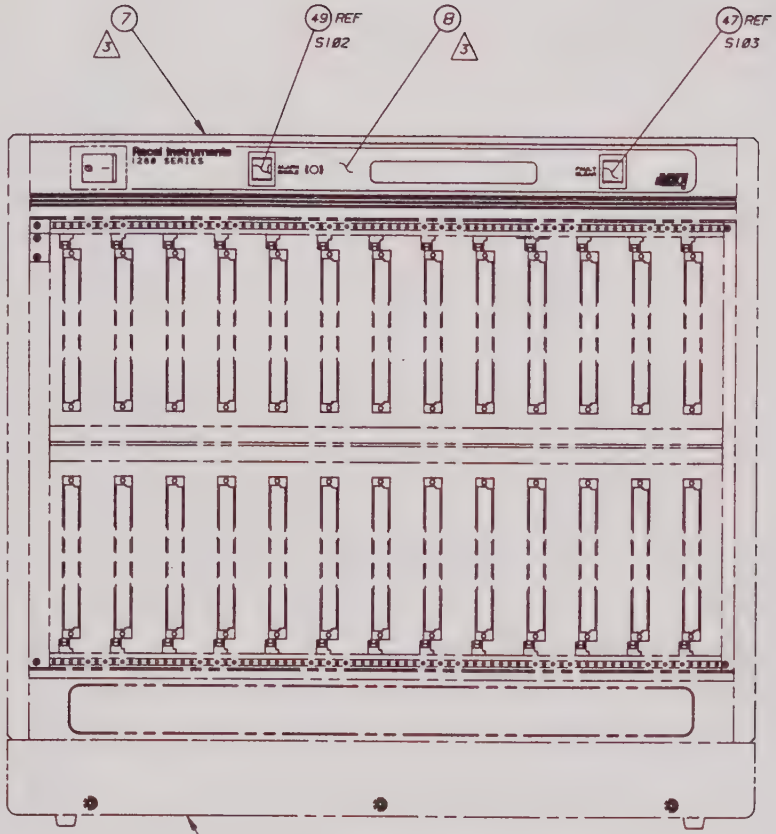
DOCUMENT TITLE
OPTION 14A, FRONT DOOR, 1261A

SIZE	CODE IDENT NO.	DOCUMENT NO	REV.
D	21793	407045	A

SCALE 1:1 | SHEET 1 OF 2



5 SEE WIRE LISTS FOR CONNECTION AND DESTINATION.

4) APPLY APPROPRIATELY SIZED SHRINK TUBING OVER THE CABLE AS INSULATION WHERE CABLE NEEDS TO BE SEPARATED FROM THE SHARP EDGES OF METAL OR PCB.

3 REMOVE EXISTING FRONT PANEL AND REPLACE IT WITH OPTIONAL FRONT PANEL AND OVERLAY ITEM (7) & (8).

2 SEE CHASSIS ASSY P/N 407038, 407039 OR 407040 FOR 1261AL, 1261AM OR 1261AH RESPECTIVELY.

1. ASSEMBLY AND MANUFACTURING PRACTICES;
   A. FOR WIRE AND CABLE ROUTING, ANY CHOSEN PATH WHICH IS NON-INJURIOUS TO THE CONDUCTORS, CONNECTORS OR ADJACENT ASSEMBLIES IS ACCEPTABLE.
   B. CABLE CLAMP, TIE WRAP AND DOUBLE SIDED TAPE TO BE POSITIONED TO OPTIMIZE AND FACILITATE WIRE AND CABLE RETENTION AND ROUTING.
   C. EXPOSED WIRE AND CABLE CONNECTIONS TO BE PROPERLY SEALED USING APPROPRIATELY-SIZED SHRINK TUBING.

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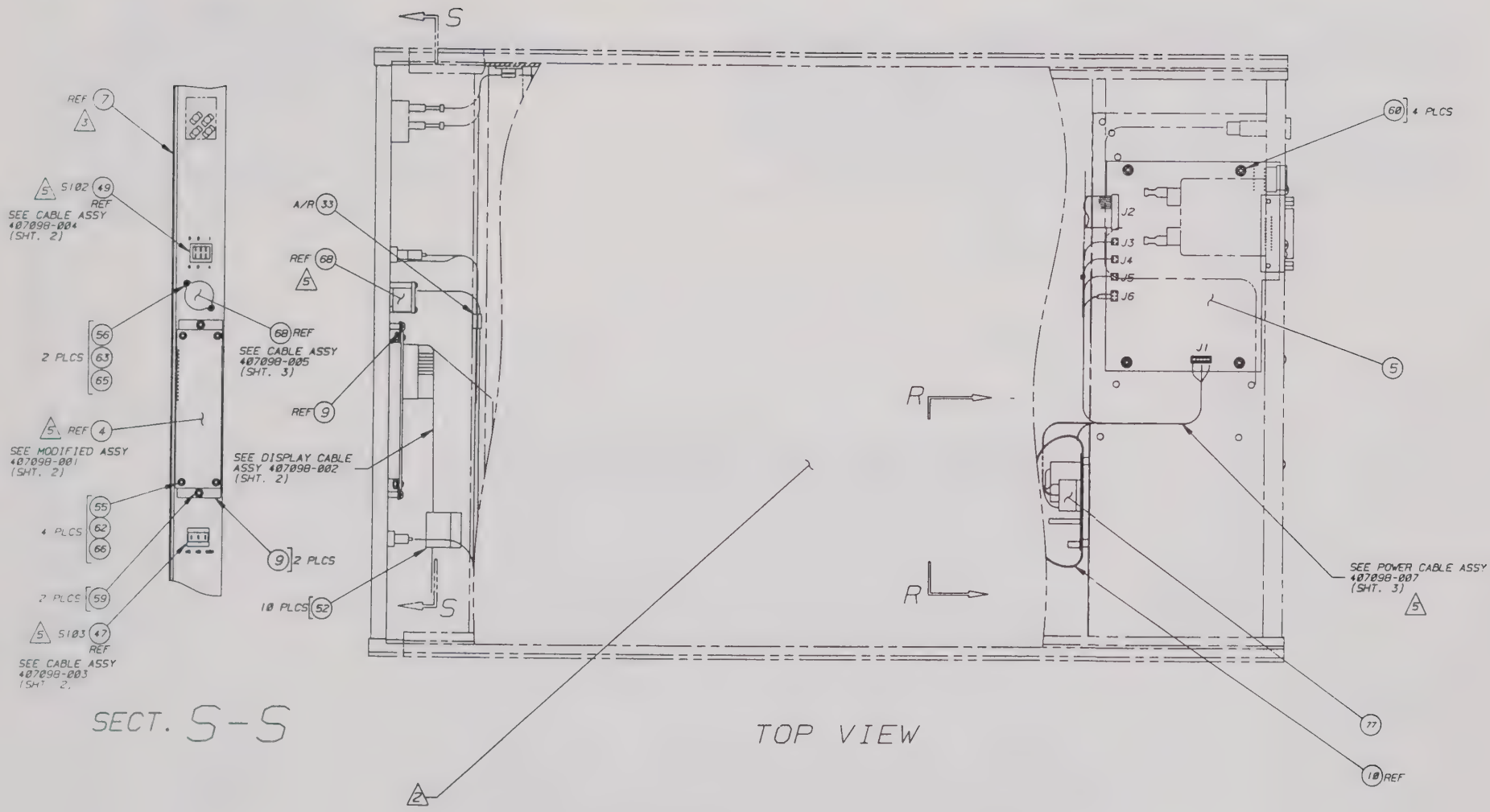
Racal Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002

DOCUMENT TITLE

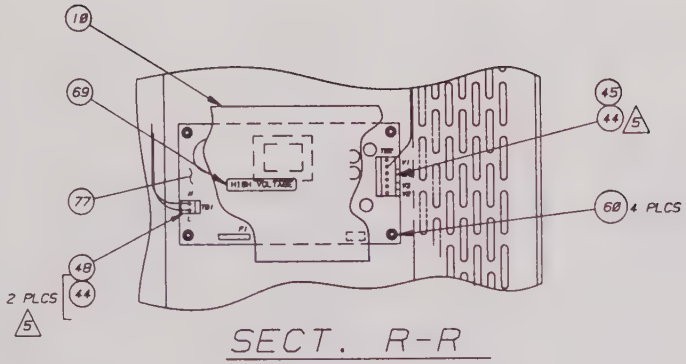
OPT. P, INTELLIGENT SYS MONITOR

SIZE	CAGE CODE	DOCUMENT NO	REV.
D	21793	407098, -001/007	L

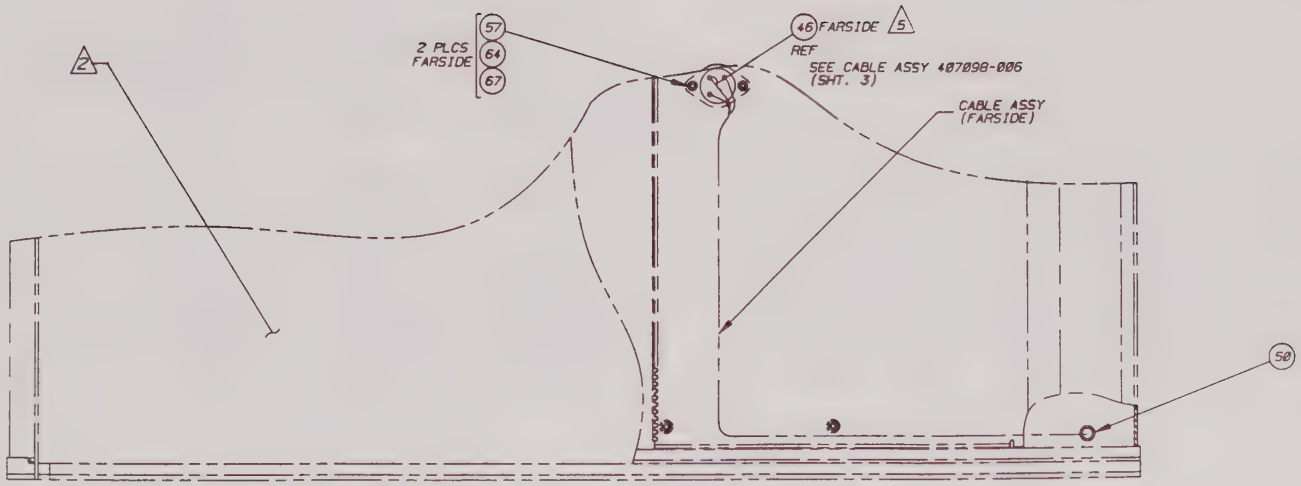
SCALE 1:2 | SHEET 1 OF 4



SIZE	CAGE CODE	DOCUMENT NO	REV
D	21793	407098, -001/007	L
SCALE 1:1		SHEET 2 OF 4	



SECT. R-R



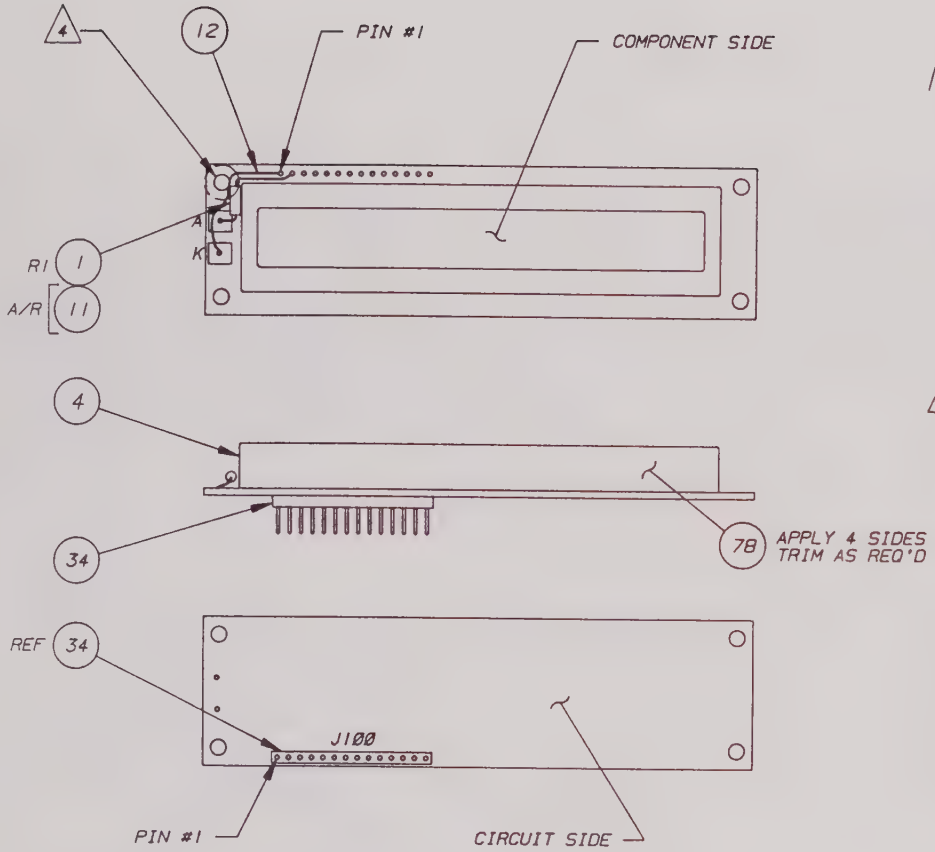
BOTTOM VIEW

SIZE	CAGE CODE	DOCUMENT NO	REV
D	21793	407098, -001/007	L
SCALE 1:1		SHEET 3 OF 4	

ENGINEERING WIRE LIST

FROM	TO	CONDUCTOR TYPE, GAUGE, COLOR	PART NO.	WIRE LENGTH	REFERENCE
405061-J2	407098-001-J100		407098-002	80"	SEE SHT 2
405061-J3	407098-006-P3		407098-006	53"	SEE SHT 3
405061-J4	407098-003-P4		407098-003	75"	SEE SHT 2
405061-J5	407098-005-P5		407098-005	75"	SEE SHT 3
405061-J6	407098-004-P6		407098-004	75"	SEE SHT 2
407098-007 P1-PIN 4	401916 J35 (601440)	WIRE,TEF,STRND 22GA,RED	523222	25"	+5VM
407098-007 P1-PIN 1	921282 TB2-1 (602126)	WIRE,TEF,STRND 22GA,RED	523222	10"	+5V
407098-007 P1-PIN 5	401916 J3 (601440)	WIRE,TEF,STRND 22GA,ORN	523333	25"	+12V
407098-007 P1-PIN 6	401916 J29 (601440)	WIRE,TEF,STRND 22GA,GRAY	523888	25"	+24V
407098-007 P1-PIN 7	401916 J27 (601440)	WIRE,TEF,STRND 22GA,WHT/BRN	523919	25"	-2V
407098-007 P1-PIN 8	401916 J6 (601440)	WIRE,TEF,STRND 22GA,YEL	523444	25"	-5.2V
407098-007 P1-PIN 9	401916 J1 (601440)	WIRE,TEF,STRND 22GA,VIO	523777	25"	-12V
407098-007 P1-PIN 10	401916 J28 (601440)	WIRE,TEF,STRND 22GA,WHT	523999	25"	-24V
921282 TB2-3 (602126)					GND
407098-007 P1-PIN 12	401916 J16 (601440)	WIRE,TEF,STRND 22GA,BLK	523000	25"	2 WIRES
PS2-L (601440)	921282 TB1-L (602126)	WIRE,TEF,STRND 18GA,BRN	522111	18"	LINE
PS2-N (601440)	921282 TB1-N (602126)	WIRE,TEF,STRND 18GA,BLU	522666	18"	NEUTRAL

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
OPT. P, INTELLIGENT SYS. MONITOR	A	21793	407098,-001/-007	L
	DRN 1511			SHEET 4 of 4



NOTES :

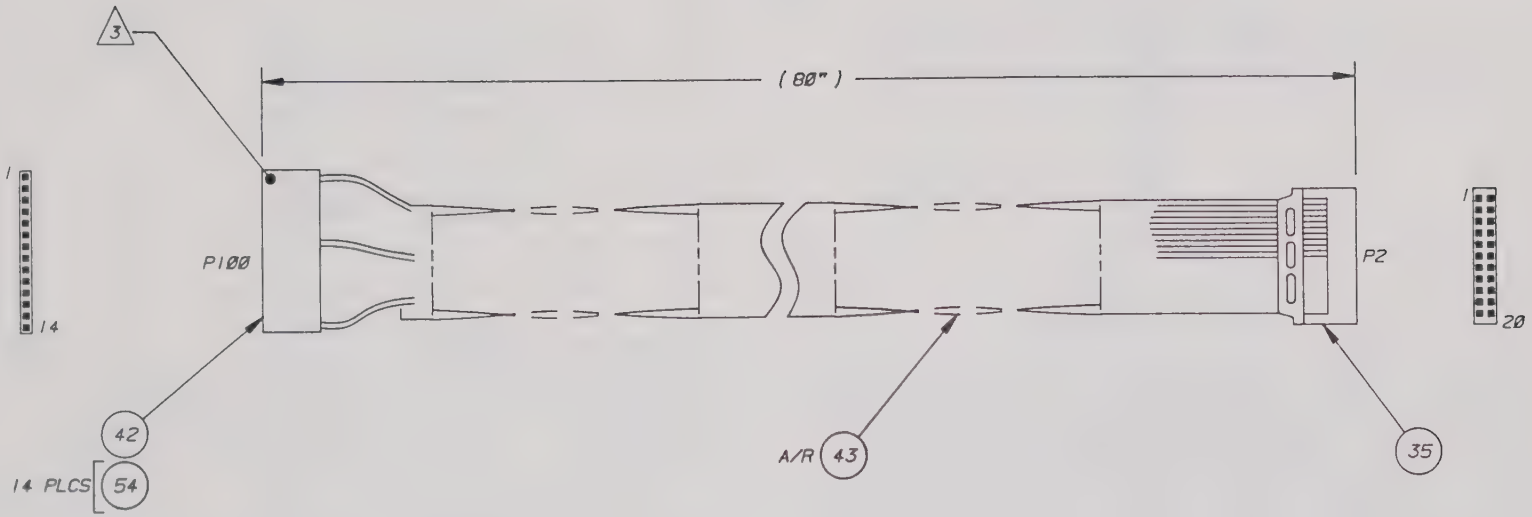
1) INSTALL AND SOLDER HEADER ITEM (34) (J100) ON CIRCUIT SIDE.
2) INSTALL AND SOLDER RESISTOR ITEM (1) BETWEEN PAD "A" AND PIN #2 OF HEADER J100 ON COMPONENT SIDE. RESISTOR WIRE MUST BE INSULATED BY USING SHRINK TUBING ITEM (11) .
3) INSTALL AND SOLDER BUS WIRE ITEM (12) BETWEEN PAD "K" AND PIN #1 OF HEADER J100 ON COMPONENT SIDE.

(4) AREA AROUND INDICATED MOUNTING HOLE MUST BE FREE FROM BUS WIRE MIN. .30 IN DIAMETER.

ITEM	P/N	DESCRIPTION	QTY	REF
78	C20782	TAPE-TRANSPARENT	A/R	
12	500204	WIRE 600V TEFLON	1"	
11	500009	TBGSRK-PVC.120ID-BLK	A/R	
1	001759	RSCCI-005.10H.25W005	1	
34	601208-022	CON-PCB-PLG14SD.100S	1	
4	210136	DILDD-005.0V2.0MALCO	1	

PARTS LIST

DISPLAY PCB ASSY
407098-001



NOTES :

1) CABLE TERMINATION AT P100 : STRIP & CRIMP WIRES PIN #1 THRU. PIN #14 .CUT REMAINING WIRES AS SHOWN.

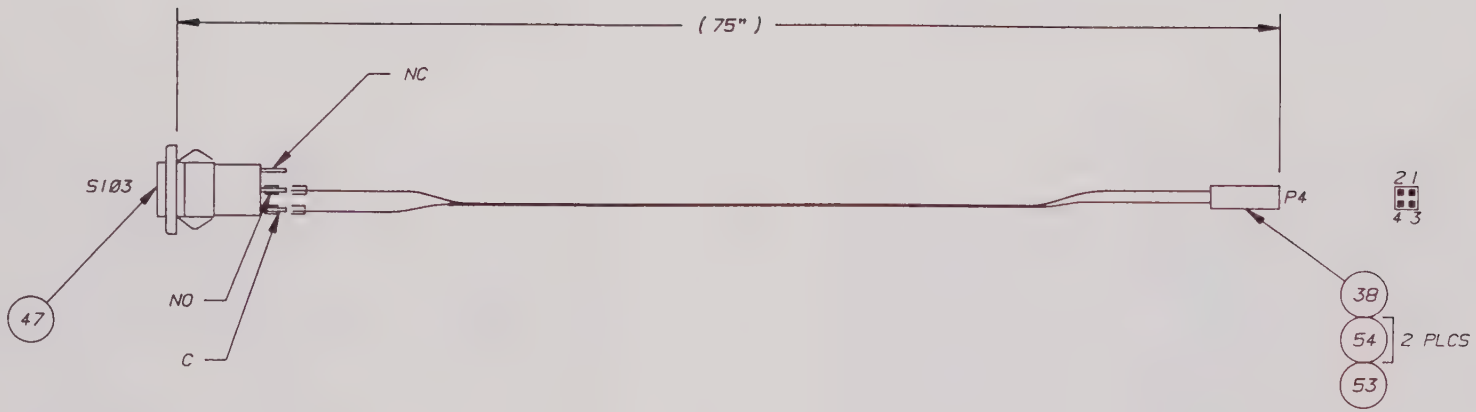
2) FLAT AREA OF CABLE (NOT TWISTED) TO BE USED TO TERMINATE WITH CONTACTS AND CONNECTOR.

3 PLACE WHITE PAINT DOT AT PIN 1 LOCATION.

ITEM	P/N	DESCRIPTION	QTY	REF
35	601436	CON-FCA-RCP20ID.050D	1	
43	601780	CAMT-RBN-20C28G-2STR	80"	
54	611311	TRMCRP-SLP-U-F26-22G	14	
53				
42	602193-014	CON-CAB-RCP14CP.100S	1	

PARTS LIST

DISPLAY CABLE ASSY
407098-002



NOTES :

1) CONNECT S103 (ITEM (47)) PIN #NO TO P4 (ITEM (38)) PIN #2:
   - SOLDER WIRE (ITEM (31)) TO PIN #NO OF S103 AND APPLY SHRINK TUBING (ITEM (11)).
   - CRIMP TO CONTACT (ITEM (54)).

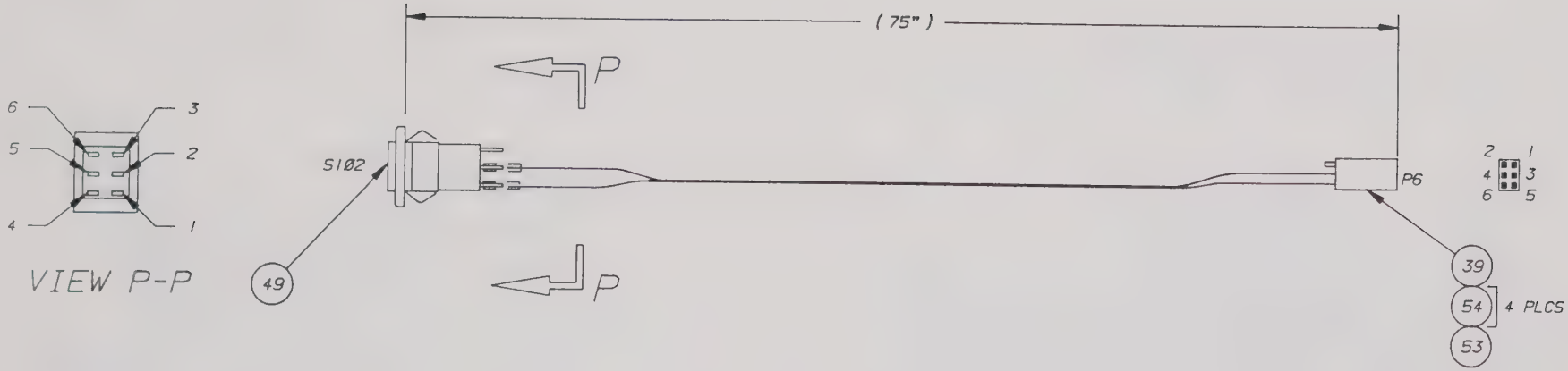
2) CONNECT S103 (ITEM (47)) PIN #C TO P4 (ITEM (38)) PIN #3:
   - SOLDER WIRE (ITEM (30)) TO PIN #C OF S103 AND APPLY SHRINK TUBING (ITEM (11)).
   - CRIMP TO CONTACT (ITEM (54)).

3) INSTALL POLARIZING KEY (ITEM (53)) TO P4 PIN #1 .

ITEM	P/N	DESCRIPTION	QTY	REF
31	524917	WRTEF-STR24G-9-1-7	75"	
30	524916	WRTEF-STR24G-9-1-6	75"	
11	500009	TBGSRK-PVC.120ID-BLK	A/R	
54	611311	TRMCRP-SLP-U-F26-22G	2	
53	602094-900	POLARIZATION PLUG	1	
38	602094-004	CON-MIN-RCP04C.100D	1	
47	602111	SWITCH-SPDT-PB-MOMENTARY	1	

PARTS LIST

RESET SWITCH CABLE ASSY
407098-003



NOTES :

1) CONNECT S102 (ITEM (49)) PIN #1 TO P6 (ITEM (39)) PIN #6:
   - SOLDER WIRE (ITEM (26)) TO PIN #1 OF S102 AND APPLY SHRINK TUBING (ITEM (11)).
   - CRIMP TO CONTACT (ITEM (54)).

2) CONNECT S102 (ITEM (49)) PIN #2 TO P6 (ITEM (39)) PIN #3:
   - SOLDER WIRE (ITEM (25)) TO PIN #2 OF S102 AND APPLY SHRINK TUBING (ITEM (11)).
   - CRIMP TO CONTACT (ITEM (54)).

3) CONNECT S102 (ITEM (49)) PIN #4 TO P6 (ITEM (39)) PIN #5:
   - SOLDER WIRE (ITEM (28)) TO PIN #4 OF S102 AND APPLY SHRINK TUBING (ITEM (11)).
   - CRIMP TO CONTACT (ITEM (54)).

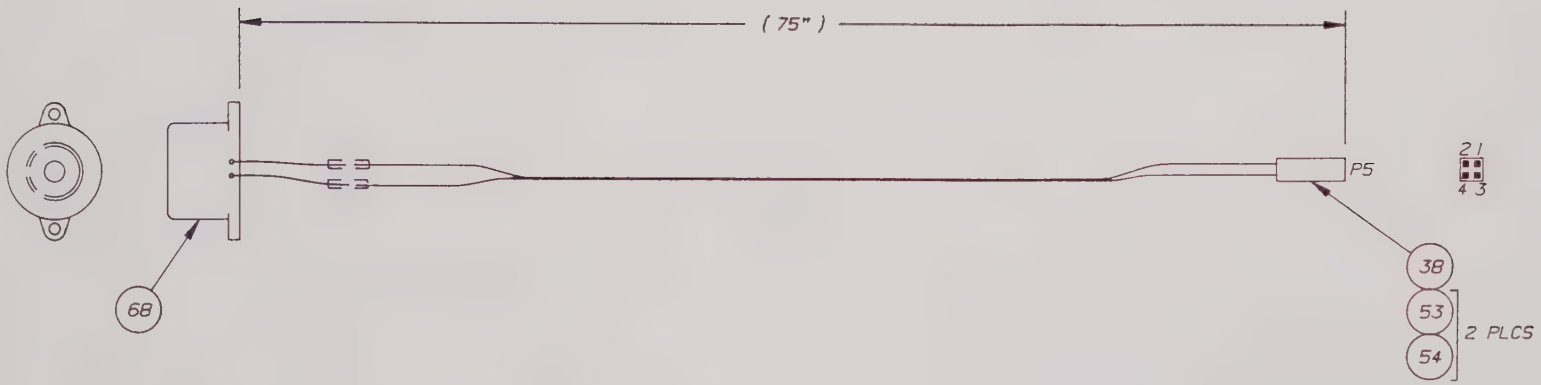
4) INSTALL POLARIZING KEY (ITEM (53)) TO P6 PIN #1 .

5) CONNECT S102 (ITEM (49)) PIN #5 TO P6 (ITEM (39)) PIN #4:
   - SOLDER WIRE (ITEM (27)) TO PIN #5 OF S102 AND APPLY SHRINK TUBING (ITEM (11)).
   - CRIMP TO CONTACT (ITEM (54)).

ITEM	P/N	DESCRIPTION	QTY	REF
26	524928	WRTEF-STR24G-9-2-8	75"	
28	524915	WRTEF-STR24G-9-1-5	75"	
27	524914	WRTEF-SIR24G-9-1-4	75"	
25	524912	WRTEF-STR24G-9-1-2	75"	
11	500009	TBGSRK-PVC.120ID-BLK	A/R	
54	611311	TRMCRP-SLP-U-F26-22G	4	
53	602094-900	POLARIZATION PLUG	1	
39	602094-006	CON-MIN-RCP006C.100D	1	
49	602119	SWITCH-DPDT-PB	1	

PARTS LIST

ALARM SWITCH CABLE ASSY
407098-004



NOTES :

1) CONNECT BUZZER (ITEM (68)) RED WIRE TO P5 (ITEM (38)) PIN #3:
   - SOLDER WIRE (ITEM (29)) TO RED WIRE OF BUZZER AND APPLY SHRINK TUBING (ITEM (11)).
   - CRIMP TO CONTACT (ITEM (54)).

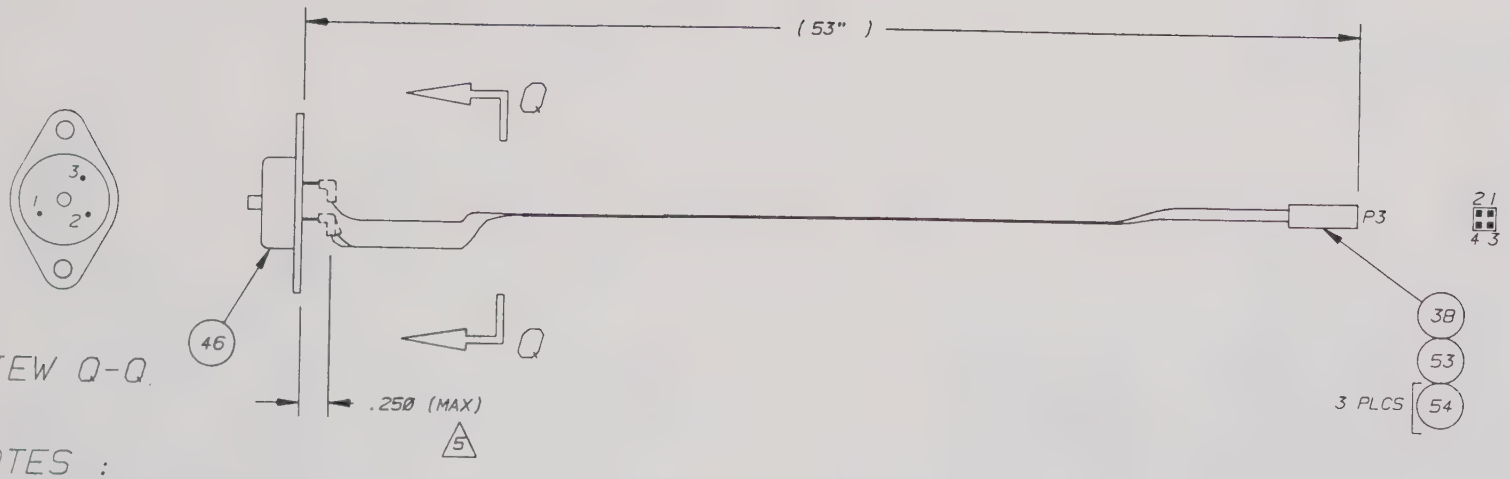
2) CONNECT BUZZER (ITEM (68)) BLACK WIRE TO P5 (ITEM (38)) PIN #4:
   - SOLDER WIRE (ITEM (13)) TO BLACK WIRE OF BUZZER AND APPLY SHRINK TUBING (ITEM (11)).
   - CRIMP TO CONTACT (ITEM (54)).

3) INSTALL POLARIZING KEY (ITEM (53)) TO P5 PIN #1 & PIN #2.

ITEM	P/N	DESCRIPTION	QTY	REF
29	524924	WRTEF-STR24G-9-2-4	75"	
13	523000	WRTEF-STR22G-0-0-0	75"	
11	500009	TBGSRK-PVC.120ID-BLK	A/R	
54	611311	TRMCRP-SLP-U-F26-22G	2	
53	602094-900	POLARIZATION PLUG	2	
38	602094-004	CON-MIN-RCP004C.100D	1	
68	921274	BUZZER,PIEZO DC PNL MNT	1	

PARTS LIST

BUZZER CABLE ASSY
407098-005



VIEW Q-Q

NOTES :

1) CONNECT SWITCH (ITEM (46)) PIN #1 TO P3 (ITEM (38)) PIN #4:
   - SOLDER WIRE (ITEM (14)) TO PIN #1 OF SWITCH AND APPLY SHRINK TUBING (ITEM (11)).
   - CRIMP TO CONTACT (ITEM (54)).

2) CONNECT SWITCH (ITEM (46)) PIN #2 TO P3 (ITEM (38)) PIN #3:
   - SOLDER WIRE (ITEM (13)) TO PIN #2 OF SWITCH AND APPLY SHRINK TUBING (ITEM (11)).
   - CRIMP TO CONTACT (ITEM (54)).

3) CONNECT SWITCH (ITEM (46)) PIN #3 TO P3 (ITEM (38)) PIN #2:
   - SOLDER WIRE (ITEM (27)) TO PIN #3 OF SWITCH AND APPLY SHRINK TUBING (ITEM (11)).
   - CRIMP TO CONTACT (ITEM (54)).

4) INSTALL POLARIZING KEY (ITEM (53)) TO P3 PIN #1 .

5 (ITEM (46)) PINS TO BE FORMED TO ENSURE TERMINATION IS MADE WITHIN .250 OF MOUNTING FLANGE.

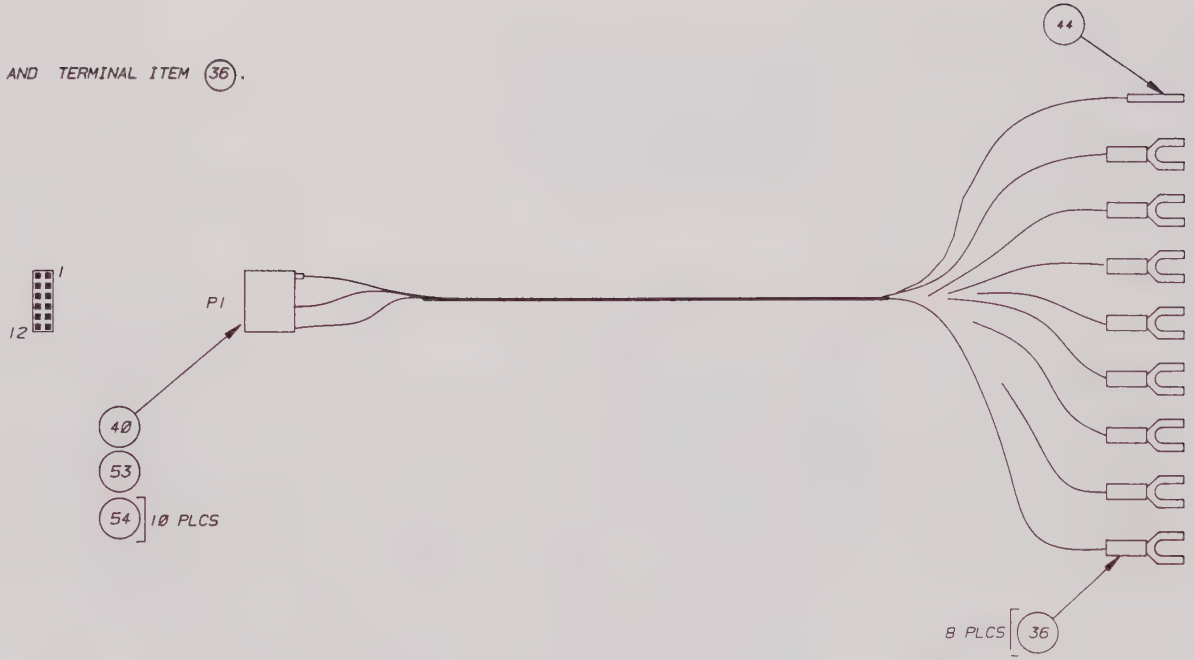
ITEM	P/N	DESCRIPTION	QTY	REF
27	524914	WRTEF-STR24G-9-1-4	53"	
14	523222	WRTEF-STR22G-2-2-2	53"	
13	523000	WRTEF-STR22G-0-0-0	53"	
11	500009	TBɔSRK-PVC.120ID-BLK	A/R	
54	611311	TRMCRP-SLP-U-F26-22G	3	
53	602094-900	POLARIZATION PLUG	1	
38	602094-004	CON-MIN-RCP004C.100D	1	
46	602110	SWITCH, AIR FLOW SENSOR	1	

PARTS LIST

AIR SENSOR SWITCH-CABLE ASSY
407098-006

NOTES :

1) STRIP & CRIMP WIRES INTO CONTACTS ITEM (54) AND TERMINAL ITEM (36).
SEE TABULATION FOR CONTACT LOCATIONS IN P1.



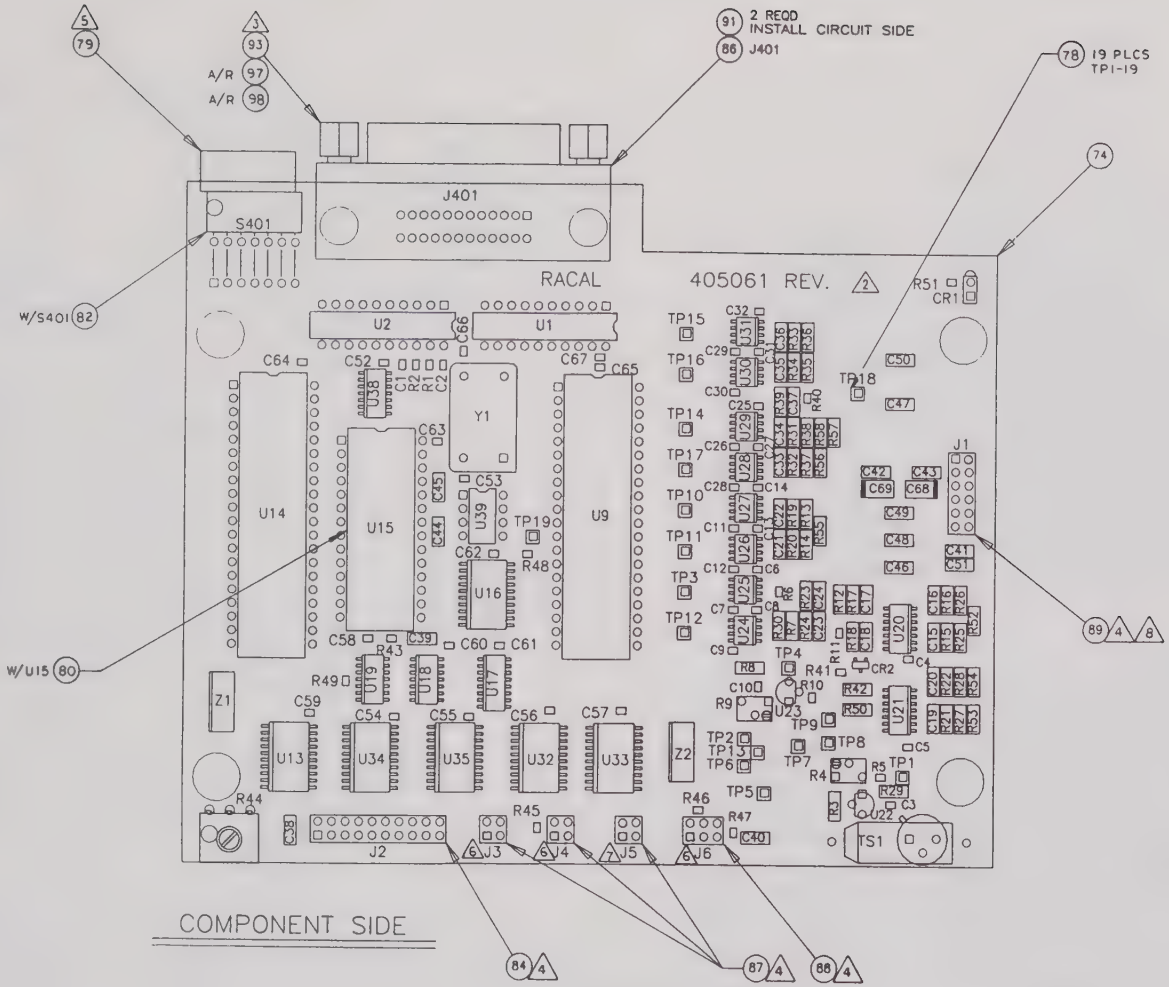
FROM P1 ITEM (40)	TO TERMINAL	WIRE	WIRE LENGTH	REMARK
PIN # 12	(36)	(13)	25"	CRIMP TOGETHER IN ITEM (36)
PIN # 11		(13)		
PIN # 10	(36)	(19)	25"	
PIN # 9	(36)	(17)	25"	
PIN # 8	(36)	(16)	25"	
PIN # 7	(36)	(23)	25"	
PIN # 6	(36)	(18)	25"	
PIN # 5	(36)	(15)	25"	
PIN # 4	(36)	(14)	25"	
PIN # 1	(44)	(14)	10"	
PIN # 3				NO CONNECTION
PIN # 2				POLARIZING KEY ITEM (53)

WIRE CONNECTION

ITEM	P/N	DESCRIPTION	QTY	REF
44	602126	TRMCRP-SLP-U-F18-24G	1	
23	523919	WRTEF-STR22G-9-1-9	25"	
19	523999	WRTEF-STR22G-9-9-9	25"	
18	523888	WRTEF-STR22G-8-8-8	25"	
17	523777	WRTEF-STR22G-7-7-7	25"	
16	523444	WRTEF-STR22G-4-4-4	25"	
15	523333	WRTEF-STR22G-3-3-3	25"	
14	523222	WRTEF-STR22G-2-2-2	25"	
13	523000	WRTEF-STR22G-0-0-0	25"	
54	611311	TRMCRP-SLP-U-F26-22G	10	
53	602094-900	POLARIZATION PLUG	1	
40	602094-012	CON-MIN-RCP12C.100D	1	
36	601440	TRMCRP-SPD006S22-1BG	8	

PARTS LIST

POWER CABLE ASSY
407098-007



6 CUT PIN 2, FLUSH WITH CONNECTOR PLASTIC BASE ON COMPONENT SIDE.

7 CUT PINS 1 & 2 OF J5, FLUSH WITH CONNECTOR PLASTIC BASE ON COMPONENT SIDE.

6 CUT PIN 1 OF J3,4 & 6, FLUSH WITH CONNECTOR PLASTIC BASE ON COMPONENT SIDE.

5 INSTALL S401 SWITCH (ITEM 79) WITH SWITCH POSITION 1 IN PIN 1 AND 14 OF SOCKET (ITEM 82).

4 INSTALL ITEM 84 (J2), ITEM 89 (J1), ITEM 87 (J3,4,5) & ITEM 88 (J6) WITH SHORT PINS IN PCB (ITEM 74).

3 DISCARD NUTS AND WASHERS SUPPLIED WITH ITEM 93.

2 INK STAMP CURRENT REVISION ON COMPONENT SIDE APPROX. WHERE SHOWN.

1. REFERENCE SCHEMATIC 435061

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4 Goodyear St., Irvine, CA. 92718-2002			
DOCUMENT TITLE			
PCB ASSY, SYSTEM MONITOR			
SIZE	CODE IDENT NO	DOCUMENT NO	REV
D	21793	405061	A
SCALE 2:1		SHEET 1 OF 3	

Z2
Y1
U39
TS1
TP19
S401
R58
J401
CR2
C69
HIGHEST REF.DES.

CAD FILENAME & CURRENT REV. LTR FOR SHEETS 1 THRU 7.

5061P1.RVA
5061P2.RVA
5061P3.RVA
5061P4.RVA
5061P5.RVA
5061P6.RVA
5061P7.RVA

REF. DES.	IC TYPE	+5V PIN NO.	GND PIN NO.	-12V PIN NO.
U39	TL7705A	8	4	
U38	74F74	14	7	
U35	74LS245A-1	20	10	
U24, 25, 26, 27, 28, 29, 30, 31	LM311	8	1	4
U20, 21	LM339	3	12	
U19	74LS32	14	7	
U18	74LS14	14	7	
U17	74LS138	16	8	
U16	74ALS373	20	10	
U15	27256 (231457)	28	14	
U14	680563	40	20	
U13, 32, 33, 34	74HCT244D	20	10	
U9	9914A	40	20	
U2	75161	20	10	
U1	75160	20	10	

IC POWER CONNECTIONS

"THIS DOCUMENT WAS CREATED AND BACKED UP ON THE 'ORCAD/SDT.III' CAD SYSTEM. ALL REVISIONS ARE TO BE MADE ON THE 'ORCAD/SDT.III' SYSTEM IN ACCORDANCE WITH COMPANY POLICY FOR CAD DOCUMENTATION."

3. RESISTOR NETWORK VALUES ARE IN OHMS, +/-2%.
2. RESISTOR VALUES ARE IN OHMS, 1/8W, +/-1%
1. CAPACITOR VALUES ARE IN MICROFARADS, 50V, +/-10%

NOTES: UNLESS OTHERWISE SPECIFIED

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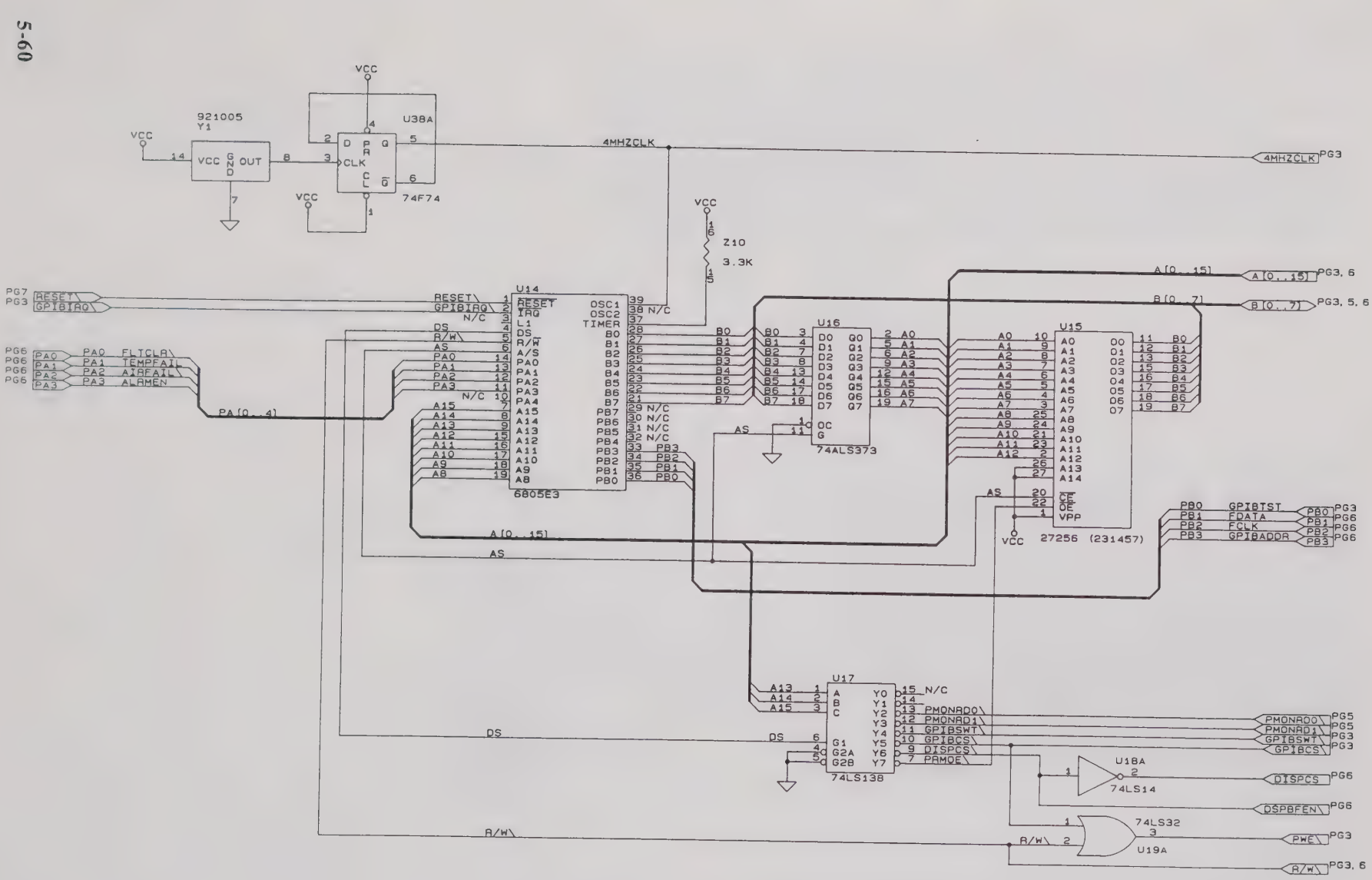
DOCUMENT TITLE

SCHEM., SYSTEM MONITOR

SIZE	CODE IDENT NO	DOCUMENT NO	REV
B	21793	435061	A

SCALE ——— SHEET 1 OF 7



MICRO CONTROLLER

SIZE	CODE IDENT NO.	DOCUMENT NO	REV
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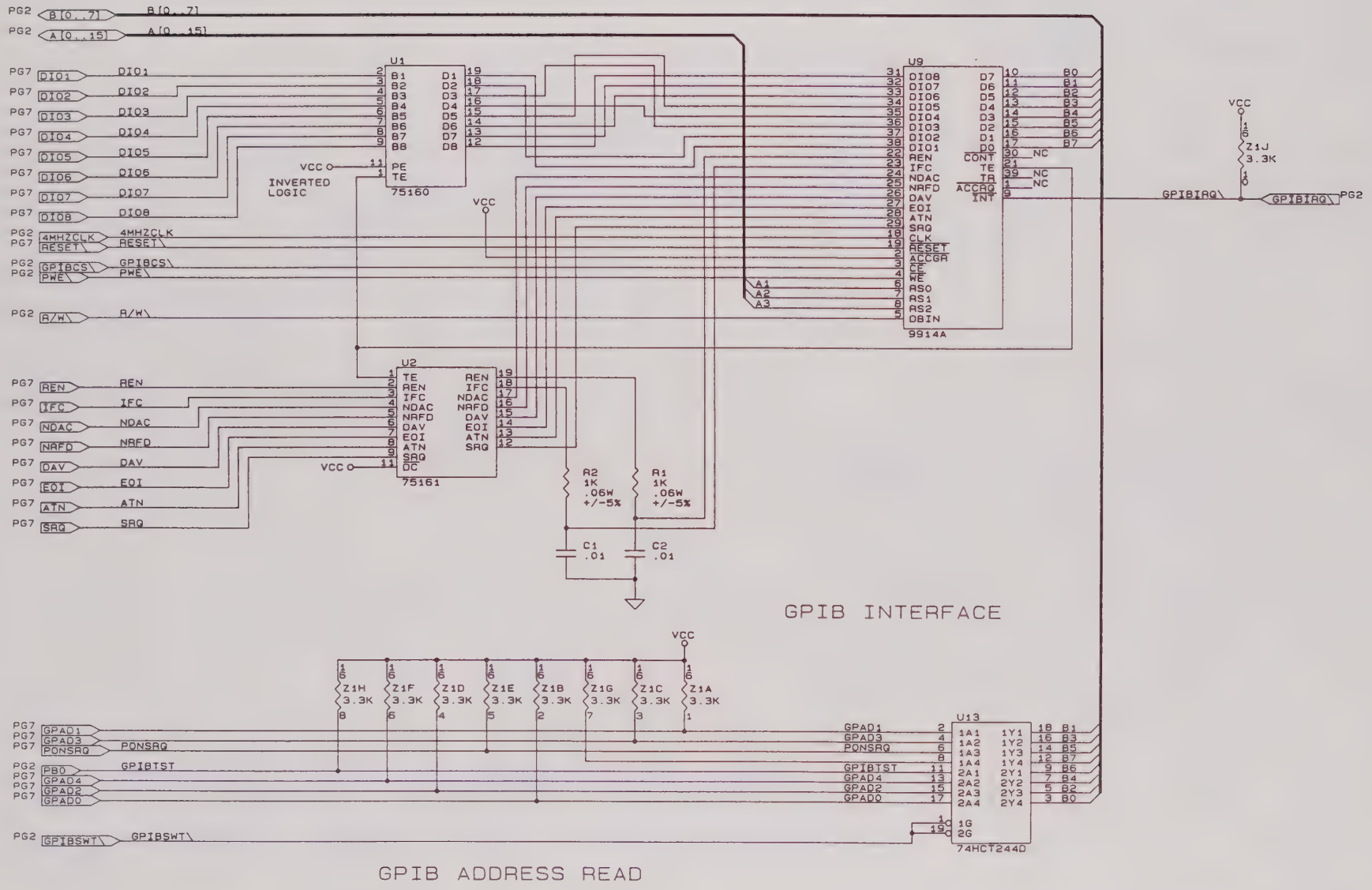

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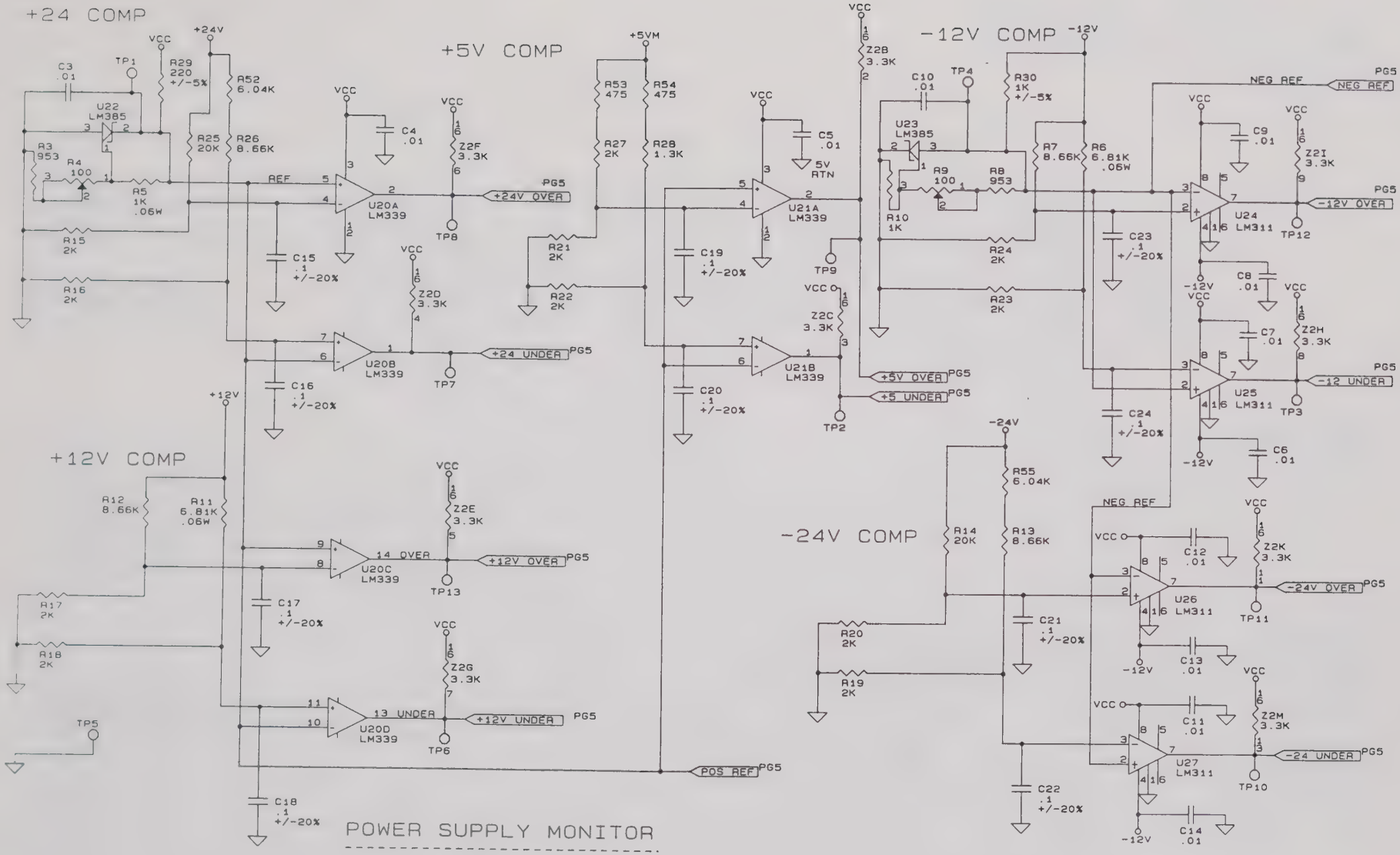

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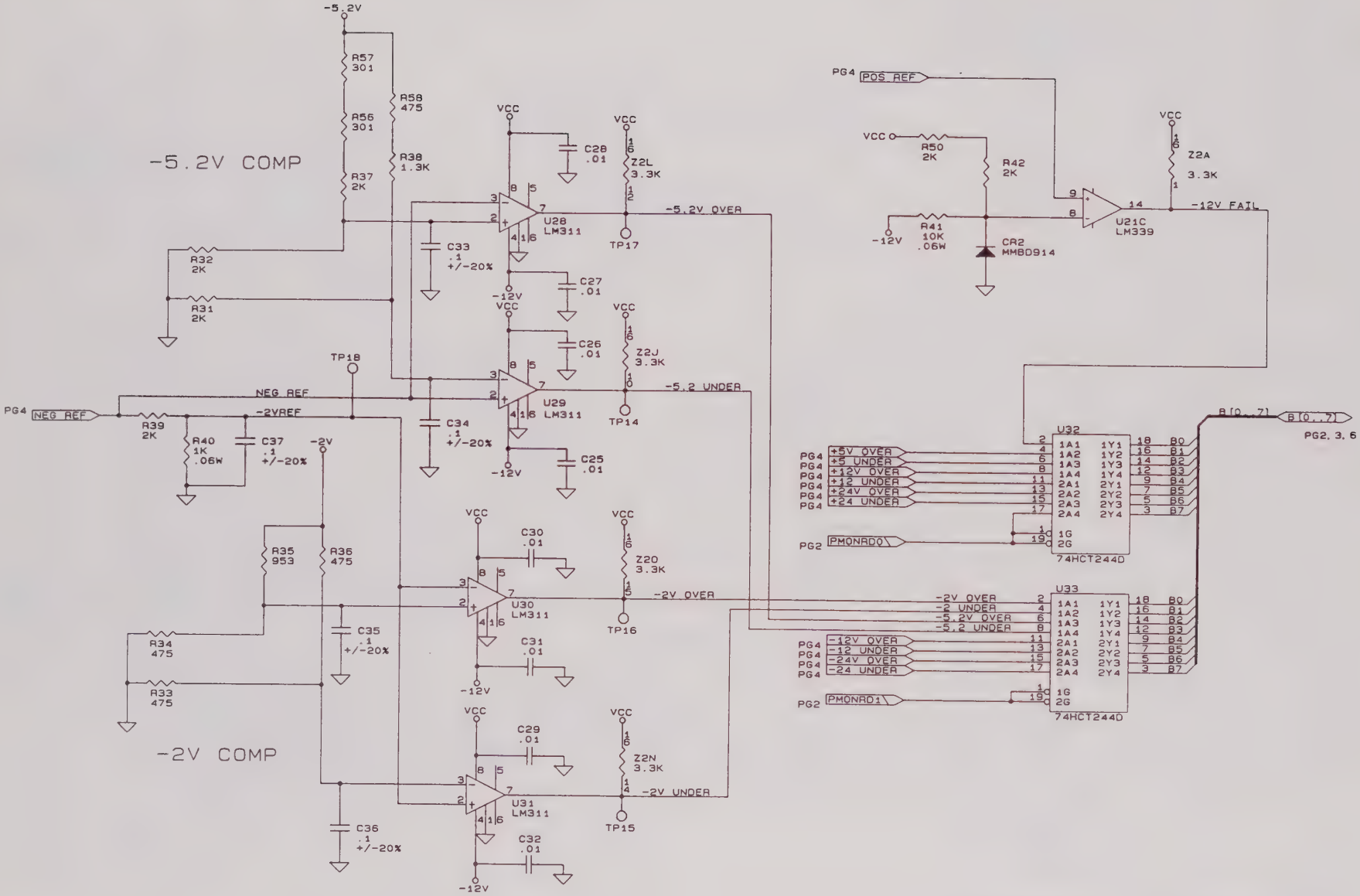

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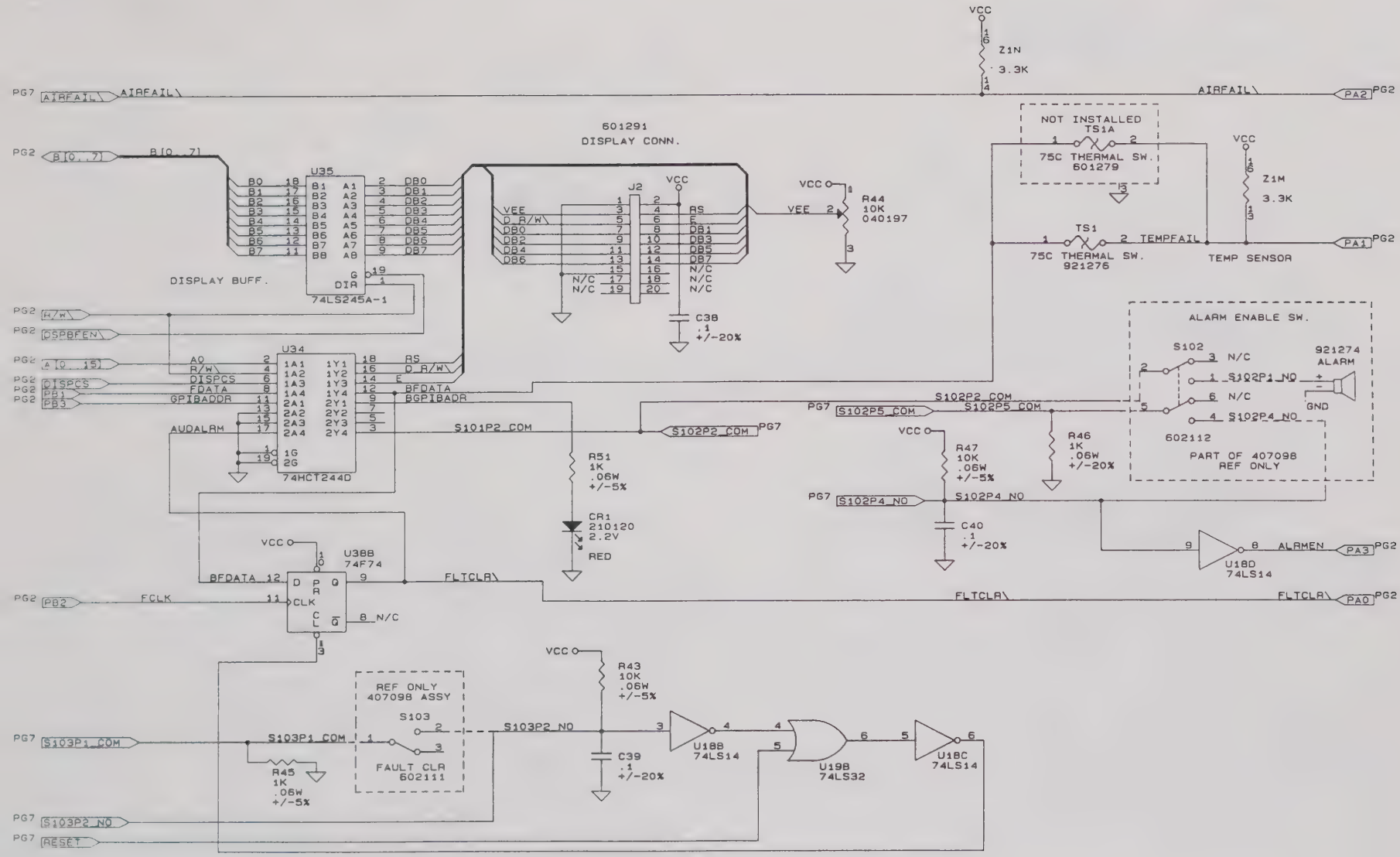

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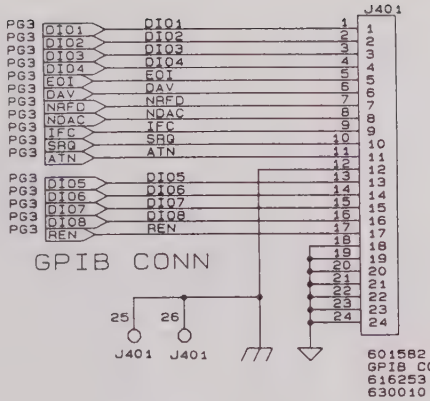

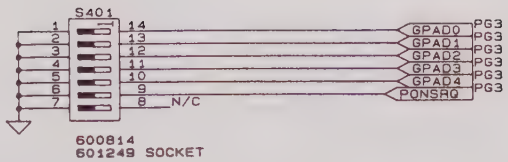

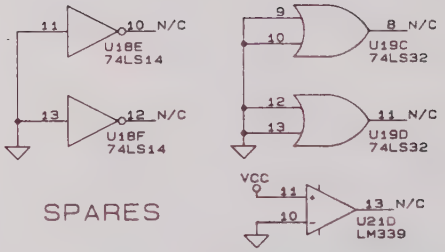

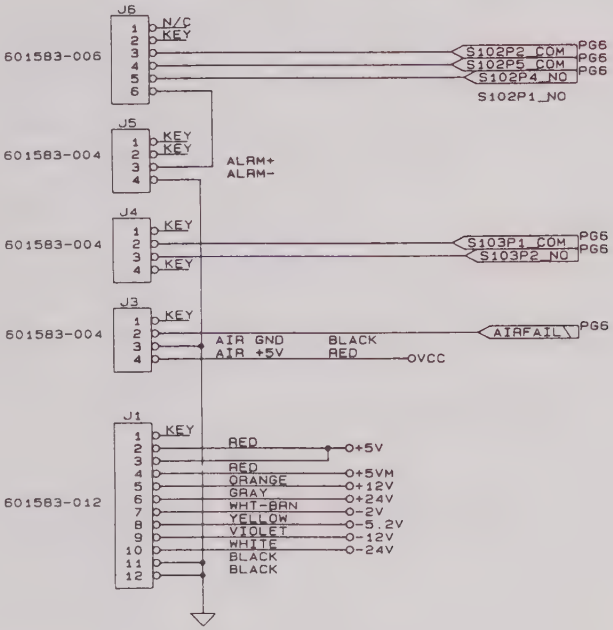

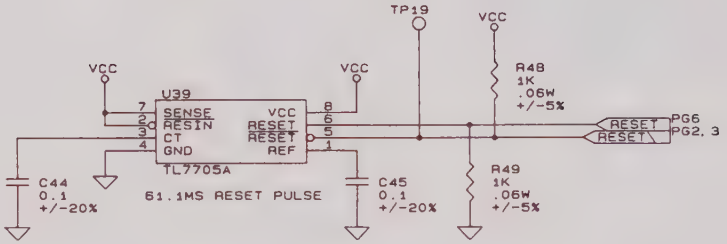

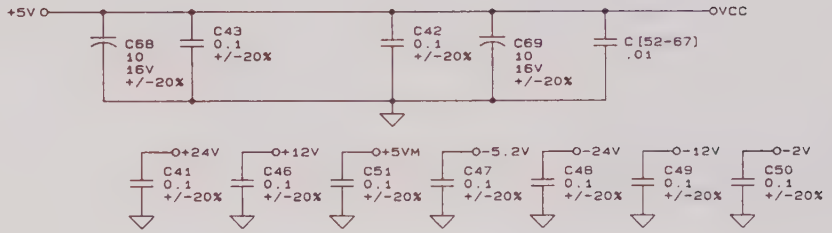

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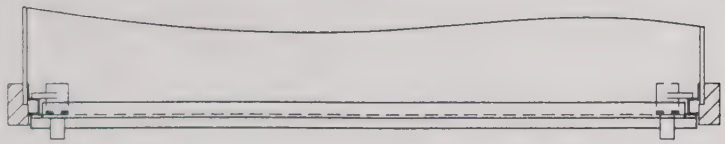

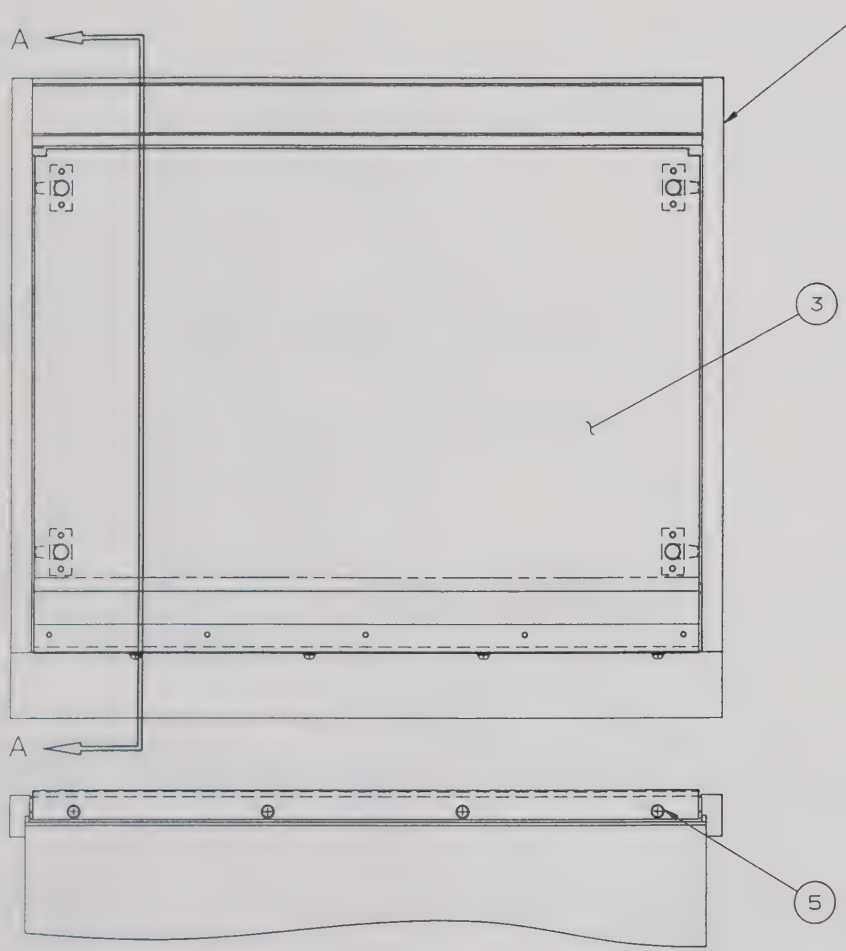

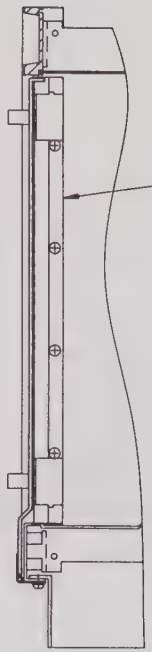

2 REQD
INSTALL ONE AT LEFT
INSTALL ONE AT RIGHT
USE EXISTING CHASSIS
HARDWARE

VIEW A-A

4 REQD
REMOVE EXISTING
FLATHEAD SCREWS
AND INSTALL PANEL
USING ITEM 5

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DOCUMENT TITLE			
ASFP/61A BLANK FRONT PANEL			
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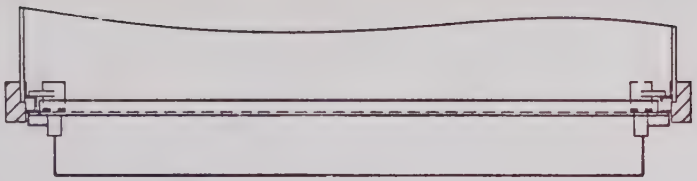
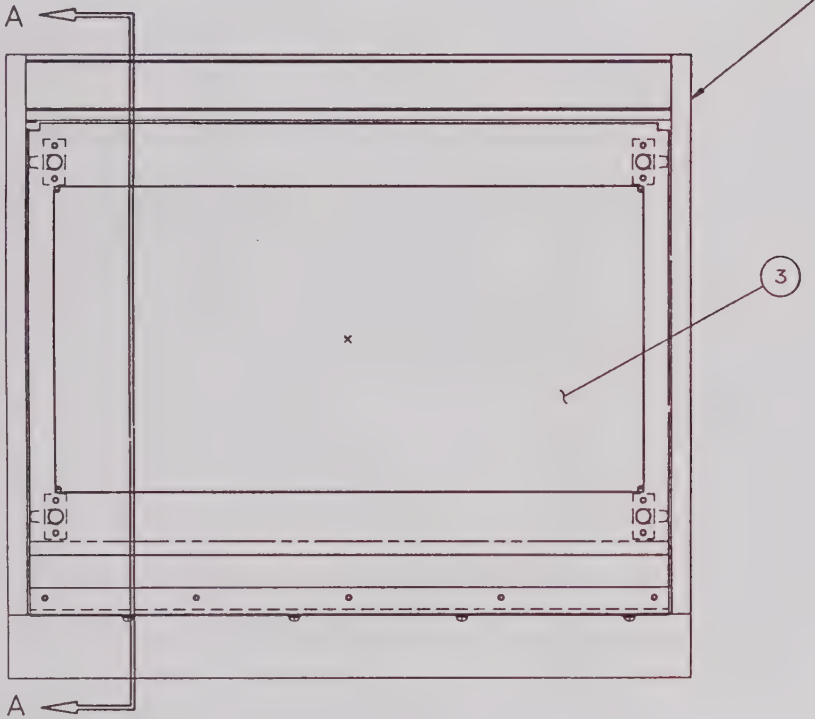
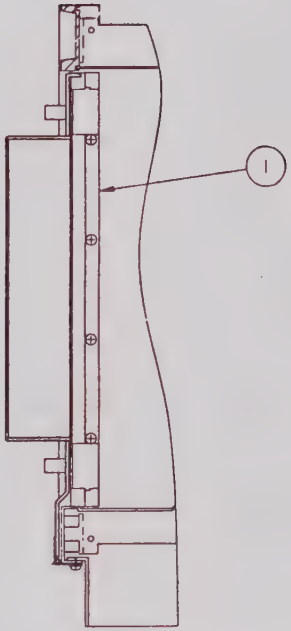
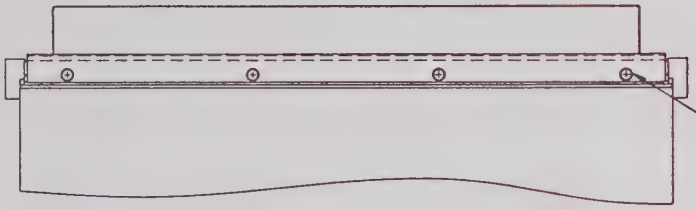
D	21793	407162	A
SCALE 1/2		SHEET 1 OF 2	







VIEW A-A



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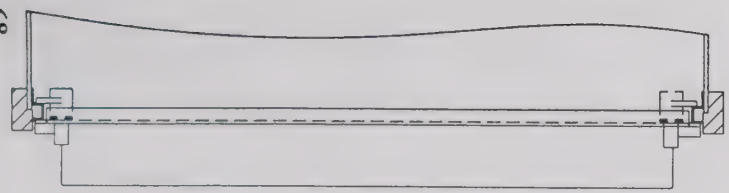
Racal Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002

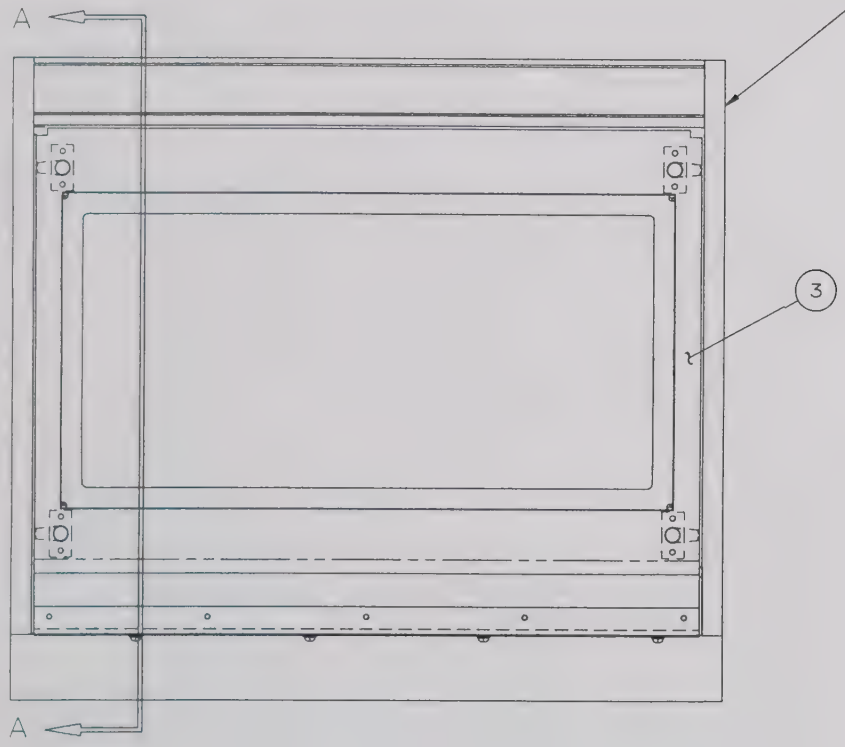
TITLE
ASFP-1, 1.5IN BLANK FR PNL

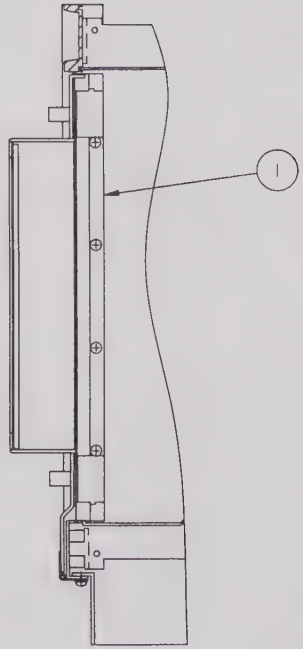
SIZE	CAGE CODE	DOCUMENT NUMBER	REV.
D	21793	407244	A

SCALE 1/2 | CALC. VT | ACT. VT | SHT. 1 OF 2

89-5

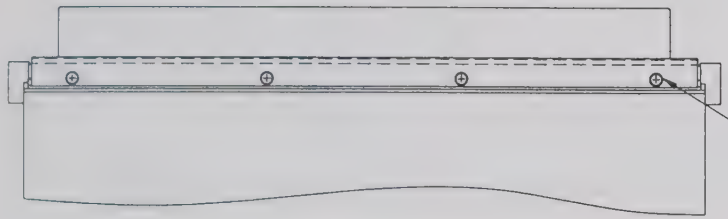






2 REQD
INSTALL ONE AT LEFT
INSTALL ONE AT RIGHT
USE EXISTING CHASSIS
HARDWARE

VIEW A-A



4 REQD
REMOVE EXISTING
FLATHEAD SCREWS
AND INSTALL PANEL
USING ITEM 5

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Racal Instruments, Inc.
4 Goodyear St., Irvine, CA. 92718-2002

TITLE
ASFP-2, 1.5IN. W/
SMOKE WINDOW

SIZE	CAGE CODE	DOCUMENT NUMBER	REV.
D	21793	407365	A

SCALE 1/2		CALC. VT	ACT. VT	SHT. 1 OF 2

SECTION 6 PARTS LIST

407039	Chassis Assembly, 1261AM (Medium Power)	6-4
407040	Chassis Assembly, 1261AH (High Power)	6-5
407075	Enclosure Assembly, 1261A	6-6
407037-004	Chassis Assembly, 1261A	6-8
401916-001	PCB Assembly, VXI Backplane	6-9
404981	PCB Assembly, Power Monitor	6-10

OPTIONS

407045	Option 14A, Front Door	6-11
407098	Option P, Intelligent System Monitor	6-12
405061	PCB Assembly, System Monitor	6-13
407162	Option ASFP, Blank Front Panel	6-15
407244	Option ASFP-1, Raised Blank Front Panel	6-15
407365	Option ASFP-2, Raised Front Panel w/Window	6-15

FSC	SUPPLIER
00779	AMP, INC. HARRISBURG, PA
01139	GENERAL ELECTRIC CO. (SILICONE PRODUCTS) WATERFORD, NY
01295	TEXAS INSTRUMENTS INC. DALLAS, TX
02138	NAMCO MKG CO. FARMINGDALE, L.I., NY
02660	AMPHENOL CORP. BROADVIEW, IL
03296	NYLON MOULDING TEMPLE CITY, CA
04222	AEROVOX CORP. (HI-Q DIVISION) MYRTLE BEACH, SC
04713	MOTOROLA, INC. (SEMICONDUCTOR PRODUCTS DIV) PHOENIX, AZ
04946	STANDARD WIRE & CABLE CO. EL SEGUNDO, CA
05236	JONATHAN MFG. CORP. FULLERTON, CA
05245	CORCOM INC. CHICAGO, IL
05397	UNION CARBIDE CORP. (MATERIALS SYSTEMS DIV.) CLEVELAND, OHIO
05693	CHERRY COMMERCIAL FASTENERS (DIVISION OF TEXTRON INC.) SANTA ANA, CA
05972	LOCTITE CORP. HARTFORD, CONN
06383	PANDUIT CORP. TINLEY PARK, CA
06540	AMATOM ELECTRONIC HARDWARE NEW ROCHELLE, NY
06915	RICHO PLASTIC CO. CHICAGO, IL
07263	FAIRCHILD (SEMICONDUCTOR DIV.) MOUNTAIN VIEW, CA
08261	SPECTRA-STRIP CORP. GARDEN GROVE, CA
08730	VEMALINE PRODUCTS (DIV. OF TEST GROUP INC.) WARWICK, RI
09353	C&K COMPONENTS WATERTOWN, MA
0KY32	SWITCHING SYSTEMS INC. PLACENTIA, CA
11236	CTS OF BERNE, INC. PASO ROBLES, CA
12324	STAKE FASTENER (DIV. OF DUPREE, INC. CHINO, CA
13103	THERMALLOY, INC. DALLAS, TX
16654	MAC PANEL CO. HIGH POINT, NC
16956	DENNISON MFG. CO. FRAMINGTON, MA
18324	SIGNETICS, INC. SUNNYVALE, CA
18714	RCA CORPORATION (SOLID STATE DIVISION) FINDLAY, OH
21793	RACAL INSTRUMENTS IRVINE, CA
24355	ANALOG DEVICES NORWOOD, MA
27014	NATIONAL SEMICONDUCTOR CORP. SANTA CLARA, CA
27264	MOLEX PRODUCTS CO. DOWNERS GROVE, IL
28520	HEYCO KENILWORTH, NJ
29005	STORM PRODUCTS CO. LOS ANGELES, CA
32897	MURATA ERIE NORTH AMERICA INC. CARLISLE, PA
32997	BOURNS INC. (TRIMPOT DIVISION) RIVERSIDE, CA
34785	DEK INC. ST. CHARLES, IL

List of Suppliers continued

FSC	SUPPLIER
39428	McMASTER-CARR SUPPLY CO. CHICAGO, IL
50157	MIDWEST COMPONENTS INC. MUSKEGON, MI
52072	CIRCUIT ASSY CORP. COSTA MESA, CA
53387	THREE (3) M ST. PAUL, MN
54583	TDK ELECTRONICS CORP. GARDEN CITY, NY
55322	SAMTEC, INC. NEW ALBANY, IN
58730	THOMAS & BETTS CO. ELIZABETH, NJ
62292	EBM INDUSTRIES UNIONVILLE, CT
62643	UNITED CHEMICON INC. ROSEMONT, IL
63006	ARCOLECTRIC CORP. CANOGA PARK, CA
65940	ROHM CORPORATION IRVINE, CA
6T698	PLASTIGLIDE MFG. CORP. HAWTHORNE, CA
70903	BELDEN CORPORATION CHICAGO, IL
71471	AEROVOX CORP. (CINEMA PLANT) MONCKS CORNER, SC
72781	DURKEE-ATWOOD CO. NEW HOPE, MN
72982	ERIE TECHNOLOGICAL PRODUCTS, INC. ERIE, PA
73439	AMSCO PRODUCTS (CAMCAR, DIV. OF TEXTRON INC.) WYTHEVILLE, VA
75915	LITTELFUSE, INC. DES PLAINES, IL
78189	ILLINOIS TOOL WORKS, INC. (SHAKEPROOF DIV.) ELGIN, IL
80294	BOURNS INSTRUMENTS INC. RIVERSIDE, CA
81349	MILITARY SPECIFICATION
82389	SWITCHCRAFT, INC. CHICAGO, IL
85480	W.H. BRADY (INDUSTRIAL PRODUCTS DIV.) MILWAUKEE, WI
91637	DALE ELECTRONICS, INC. COLUMBUS, NE
91802	INDUSTRIAL DEVICES INC. EDGEWATER, NJ
92194	ALPHA WIRE ELIZABETH, NJ
93929	WARREN COMMUNICATIONS (UNIT OF GENERAL SIGNAL CORP. LIVINGSTON, NJ
94222	SOUTH CO., INC. CONCORDVILLE, PA
95275	VITRAMON, INC. BRIDGEPORT, CT
95987	WECKESSER CO., INC. (DIVISION OF W.H. BRADY) MILWAUKEE, WI
FEMAE	FEMA ELECTRONICS CORP. E. BRUNSWICK, NJ
SOSCR	SOUTHERN SCREW HARTFORD, CT
UNIPR	UNIPOWER CORP. POMPANO BEACH, FL

407039 - CHASIS ASSY., 1261AM

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
F400	921163-010	FUSE, SLO-BLO, CERAMIC, 10A, 250V	75915	326010
J400	601877	FILTER, POWER LINE, 10A	05245	10VK7
PS1	921258	POWER SUPPLY, -24, -2,5	OKY32	STM350-1054A
PS2	921259-001	POWER SUPPLY, -5.2, 12 24	21793	921259-001
{1}2	020737-005	RESISTOR, WW, 1 OHM, 5W, .05 PCT	91637	RH-50, 5PCT, 1.0 OHM
{5}2	110247	CAP., ELEC, LOW ESR, 10 MF, 16V, 20 PCT	62643	KME16T103M22X4022
{6}4	110248	CAP., ELEC, LOW ESR, 10 MF, 35V, 20 PCT	62643	KME35T103M25X5022
{7}1	456314	PLATE, D-SUB COVER	21793	456314
{8}2	456007-001	BAR, REAR RETAINER	21793	456007-001
{9}1	456019	COVER, TOP	21793	456019
{10}2	456032	PANEL, SIDE COVER	21793	456032
{11}1	456061	HEATSINK, RESISTOR MOUNTING	21793	456061
{12}6	456271	COVER, CARD GUIDE	21793	456271
{13}1	407075	CHASSIS ASSY., 1261A	21793	407075
{17}A/R	500217-000	WIRE, TEFLON STRANDED, 14 GA, BLK	92194	5859-2
{18}A/R	500271-222	WIRE, TEFLON STRANDED, 14 GA, RED	92194	5859-3
{19}A/R	500271-444	WIRE, TEFLON STRANDED, 14 GA, YEL	92194	5859-5
{20}A/R	500271-888	WIRE, TEFLON STRANDED, 14 GA, GRAY	92194	5859-9
{21}2	600797	RECEPTACLE, 3-PIN	27264	03-09-1032
{22}2	601585	CABLE, CLAMP	34785	021-0500
{23}4	601159	TERMINAL, SPADE, 14-166A	00779	320861
{24}12	601440	TERMINAL, CRIMP, NYLON INSULATED	58730	RA2213
{25}1	617129	WASHER, LOCK, #8, LIGHT SERIES	-	-
{26}4	610379	WASHER, NYLON FLAT, #4	95987	NW4-2812
{27}4	610873	WASHER, FLAT, #6 SS, MS NA5620-C6L	-	-
{28}6	610897	CABLE TIE, SELF-LOCKING,1/16-1 1/4	58730	TY-24M
{29}4	610925	SCREW, PPH, 6-32 X 1.000, 10225, CAD. PLATE	SOSCR	ROLOK
{30}3	617104	WASHER, FLAT, #8, LIGHT SERIES	-	-
{31}2	611322	NUT, CAP, 8-32, BLK, NYLON	73439	113826-N-2
{32}6	611017	CRADLE, CAPACITOR MOUNTING	85480	MCNY-1250NA
{33}2	611324	CLAMP, CABLE	28520	3380
{34}1	611325	BUSHING, SNAP	28520	2053
{35}8	616260	SCREW, PPH, SEMS ASSY, 8-32 X .375	78189	SEMS W/SQ CONE WA.
{37}6	618112	SCREW, PPH, 6-20 X .500, TAPPING, TYPE B	-	-
{38}1	617006	NUT, HEX, 8-32	-	-
{39}4	921054	RECESSED BUMPER	6T698	101-BN-1026
{43}4	611327	RIVET, SNAP, SR, BLACK (.118-.157)	06915	SR-3055BK
{44}2	616256	SCREW, PPH, SEMS ASSY, 6-32X.375	78189	-
{45}1	456062	PLATE, GPIB COVER	21793	456062
{46}1	600620	CABLE, POWER, AC LINE	70903	17250B
{47}A/R	920469	THERMAL JOINT COMPOUND	13103	250
{48}1	920888	LABEL, IDENTIFICATION	21793	920888
{49}1	980712	INSTRUCTION MANUAL, 1261A	21793	980712

407040 VXI CHASSIS ASSY., 1261AH

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
F400	921163-015	FUSE, SLO-BLO, 15A, 250V	75915	326015
J400	602169	POWER LINE FILTER, 15A	71471	A15GEN4C17
PS1	921158	POWER SUPPLY, 5/12/24V	UNIPR	PF-2335-ADE
PS2	921402	POWER SUPPLY, 2/5.2/24/24V	UNIPR	EPF-2155-106
{1}2	110247	CAP., ELEC, LOW ESR, 10 MF, 16V, 20 PCT	62643	KME16T103M22X4022
{2}4	110248	CAP., ELEC, LOW ESR, 10 MF, 35V, 20 PCT	62643	KME35T103M25X5022
{4}6	611017	CRADLE, CAPACITOR MOUNTING	85480	MCNY-1250NA
{7}1	456314	PLATE, D-SUB COVER	21793	456314
{8}2	456007-001	BAR, REAR RETAINER	21793	456007-001
{9}1	456019	COVER, TOP	21793	456019
{10}2	456032	PANEL, SIDE COVER	21793	456032
{11}6	456271	COVER, CARD GUIDE	21793	456271
{13}1	407075	CHASSIS ASSY., 1261A	21793	407075
{15}A/R	523000	WIRE, TEFLON STRANDED, 22 GA, BLK	92194	5855/7-BLK
{16}A/R	522000	WIRE, TEFLON STRANDED, 18 GA, BLK	92194	5857-BLK
{17}A/R	500271-000	WIRE, TEFLON STRANDED, 14 GA, BLK	92194	5859-2
{18}A/R	523111	WIRE, TEFLON STRANDED, 22 GA, BRN	92194	5855/7-BRN
{19}A/R	523333	WIRE, TEFLON STRANDED, 22 GA, ORG	92194	5855/7-ORG
{20}A/R	523888	WIRE, TEFLON STRANDED, 22 GA, GRY	92194	5855/7-GRY
{21}A/R	523919	WIRE, TEFLON STRANDED, 22 GA, WHT/BRN	92194	5855/7-WHT/BRN
{22}5	600380	TERMINAL PIN, MALE, .062 (3 REQ'D)	27264	1854
{24}32	601440	TERMINAL, CRIMP, NYLON INSULATED	58730	RA2213
{25}1	601317	TERMINAL, CRIMP	58730	RC2203
{26}4	610379	WASHER, NYLON FLAT, #4	95987	NW4-2812
{27}4	610873	WASHER, FLAT, #6 SS, MS NA5620-C6L	-	-
{28}A/R	523999	WIRE, TEFLON STRANDED, 22 GA, WHT	92194	5855/7-WHT
{29}4	610925	SCREW, PPH, 6-32 X 1.000, 10225, CAD. PLATE	SOSCR	ROLOK
{30}3	617104	WASHER, FLAT, #8, LIGHT SERIES	-	-
{31}2	611322	NUT, CAP, 8-32, BLK, NYLON	73439	113826-N-2
{32}24	601159	TERMINAL, SPADE, 14-16 GA	00779	320861
{33}2	611324	CLAMP, CABLE	28520	3380
{34}1	611325	BUSHING, SNAP	28520	2053
{35}8	616260	SCREW, PPH, SEMS ASSY, 8-32 X .375	78189	SEMS W/SQ CONE WA.
{36}2	601878	CONNECTOR, CABLE, 9-PIN	27264	03-06-2092
{37}1	602103	CONNECTOR, 2 ROW, 40 PIN	52072	CA-4OHM-1F-SR
{38}1	617006	NUT, HEX, 8-32	-	-
{39}4	921054	RECESSED BUMPER	6T698	101-BN-1026
{42}1	617129	WASHER, LOCK, #8, LIGHT SERIES	-	-
{43}4	611327	RIVET, SNAP, SR, BLACK (.118-.157)	06915	SR-3055BK
{44}2	616256	SCREW, PPH, SEMS ASSY, 6-32X.375	78189	-
{45}1	456062	PLATE, GPIB COVER	21793	456062
{46}1	602168	CABLE, POWER, AC LINE	70903	17504
{47}1	920888	LABEL, IDENTIFICATION	21793	920888
{49}1	980712	INSTRUCTION MANUAL, 1261A	21793	980712

407075 - ENCLOSURE ASSY., 1261A VXI

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
P1	601882	CONNECTOR, HOUSING, 6-PIN	00779	530554-5
P2	601829	CONNECTOR, CABLE, RECEPT, 3P	00779	530554-2
P31	601959	CONNECTOR, CABLE, RECEPT, 6-PIN	00779	102241-4
S100	602019	SWITCH, ROCKER, DPST, 150A IN RUSH	63006	C1353ABBA3EN602AB
{6}1	401916-001	PCB ASSEMBLY, VXI BACKPLANE	21793	401916-001
{9}1	404981	PCB ASSY., POWER MONITOR, 1261/2	21793	404981
{11}1	455531	FILLER PANEL, RIGHT	21793	455531
{12}1	455532	FILLER PANEL, LEFT	21793	455532
{13}2	455585	KEY, LOCKOUT, TTL, SLTO	21793	455585
{14}1	456031	COVER, FAN ACCESS	21793	456031
{15}1	456021	DOOR, REAR	21793	456021
{16}1	456024	BRACKET	21793	456024
{17}1	407037-004	CHASSIS ASSEMBLY, 1261A	21793	407037-004
{19}A/R	500064	TUBING, SHRINK, .093 ID, BLK	29005	RNF-100-1-3/32
{22}A/R	500271-000	WIRE, TEFLON STRANDED, 14 GA, BLK	92194	5859-2
{23}A/R	500271-222	WIRE, TEFLON STRANDED, 14 GA, RED	92194	5859-3
{25}A/R	500271-333	WIRE, TEFLON STRANDED, 14 GA, ORN	92194	5859-8
{26}A/R	500271-444	WIRE, TEFLON STRANDED, 14 GA, YEL	92194	5859-5
{27}A/R	500271-777	WIRE, TEFLON STRANDED, 14 GA, VIO	92194	5859-10
{28}A/R	500271-888	WIRE, TEFLON STRANDED, 14 GA, GRAY	92194	5859-9
{29}A/R	500271-919	WIRE, TEFLON STRANDED, 14 GA, WHT/BRN	92194	5859-16
{30}A/R	500271-999	WIRE, TEFLON STRANDED, 14 GA, WHT	92194	5859-1
{33}A/R	521111	WIRE, TEFLON STRANDED, 16 GA, BRN	92194	5858-BRN
{34}A/R	521555	WIRE, TEFLON STRANDED, 16 GA, GRN	92194	5858-GRN
{35}A/R	521666	WIRE, TEFLON STRANDED, 16 GA, BLU	92194	5858-BLU
{37}A/R	522111	WIRE, TEFLON STRANDED, 18 GA, BRN	-	-
{38}A/R	522666	WIRE, TEFLON STRANDED, 18 GA, BLU	-	-
{39}A/R	523000	WIRE, TEFLON STRANDED, 22 GA, BLK	92194	5855/7-BLK
{41}A/R	523222	WIRE, TEFLON STRANDED, 22 GA, RED	92194	5855/7-RED
{43}A/R	523333	WIRE, TEFLON STRANDED, 22 GA, ORG	92194	5855/7-ORG
{44}A/R	523888	WIRE, TEFLON STRANDED, 22 GA, GRY	92194	5855/7-GRY
{46}A/R	523909	WIRE, TEFLON STRANDED, 22 GA, WHT/BLK	92194	5855/7-WHT/BLK
{47}A/R	523929	WIRE, TEFLON STRANDED, 22 GA, WHT/RED	92194	5855/7-WHT/RED
{48}A/R	520949	WIRE, TEFLON STRANDED, 20 GA, WHT/YEL	92194	5856-WHT/YEL
{49}A/R	520969	WIRE, TEFLON STRANDED, 20 GA, WHT/BLK	92194	5856-WHT/BLK
{52}A/R	524924	WIRE, TEFLON STRANDED, 24 GA, WHT/RED/YEL	-	-
{54}1	600521	SWITCH. DPDT	82389	46256LFE
{55}4	600650	TERMINAL, PIN, FEMALE W/DIMPLE	27264	02-09-1143
{56}1	600651	TERMINAL, PIN, MALE W/INDENT	27264	02-09-2143
{59}43	601159	TERMINAL, SPADE, 14-166A	00779	320861
{60}7	601317	TERMINAL, CRIMP	58730	RC2203
{61}14	602103	CONNECTOR, 2 ROW, 40 PIN	52072	CA-40HM-1F-SR
{62}14	601440	TERMINAL, CRIMP, NYLON INSULATED	58730	RA2213
{63}3	601508	TERMINAL, CRIMP, 22-16 GA.	21793	601508
{68}7	601880	DISCONNECT, 16-14 GA	00779	3-520140-2
{72}4	601960	TERMINAL, CRIMP, PIN	00779	102107-2
{75}1	610758	BUSHING, STRAIN RELIEF	28520	SR-SP-4
{76}50	610777	CABLE TIE	16956	08-432
{77}25	610897	CABLE TIE, SELF-LOCKING,1/16-1 1/4	58730	TY-24M
{79}2	611052	KEY, POLARIZING, PLUG	00779	87077-1
{81}6	611053	TERMINAL, CRIMP	00779	530553-2
{82}11	611118	CLAMP, CABLE, ADH, BRACKED	34785	021-0250
{83}10	611173	RIVET, .125DX.337L	05693	AAP-43
{84}2	615044	SCREW, PPH, 4-40 X .375	-	-
{85}20	611320	SCREW, STRAIGHT HEX SOCKET, M2.5X.45X14	-	-
{86}2	615015	SCREW, PPH, 2-56X.312	-	-
{87}4	616304	SCREW, PPF, SS. M2.5-.45 X 10	-	-
{88}8	616342	SCREW, PPH, M4 X 8	-	-
{90}2	617102	WASHER, FLAT, #4, LIGHT SERIES	-	-

407075 - ENCLOSURE ASSY., 1261A VXI

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{91}26	617127	WASHER, LOCK, #4, LIGHT SERIES	-	-
{92}4	615557	SCREW, PFH, 6-32 X .312	-	-
{93}2	617004	NUT, HEX, 4-40	-	-
{94}2	616255	SCREW, PPH, SEMS ASSY, 6-32X.312	78189	SEMS W/SQ CONE WA.
{97}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{98}10	616256	SCREW, PPH, SEMS ASSY, 6-32X.375	78189	SEMS W/SQ CONE WA.
{101}2	921255	FAN, BLOWER AC, 170 CFM	62292	R2S133-AB25-22
{103}1	921257	FUSEHOLDER, LO PROFILE, 3AG	75915	3453-LSI
{106}1	617006	NUT, HEX, 8-32	-	-
{107}9	617104	WASHER, FLAT, #8, LIGHT SERIES	-	-
{108}9	617129	WASHER, LOCK, #8, LIGHT SERIES	-	-
{110}20	610872	WASHER, FLAT, #4SS	08226	NAS620-CAL

407037-004 CHASSIS ASSY., 1261A

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{2}4	456001-001	RAIL, CARD GUIDE MOUNTING, F/R	21793	456001-001
{3}1	456002-001	BAR, BACKPLANE SUPPORT	21793	456002-001
{4}2	456003-001	RAIL, CARDGUIDE MOUNTING, CTR	21793	456003-001
{5}5	456004	PUNCH STRIP, CARDGUIDE MOUNTING	21793	456004
{6}6	456005	RAIL, NUT	21793	456005
{7}1	456006-003	CABLE TRAY, W/CABLE ACCESS	21793	456006-003
{8}1	456113	RETAINER, FILTER	21793	456113
{9}1	456008-001	RAIL, FRONT, RIGHT SIDE	21793	456008-001
{10}1	456008-002	RAIL, FRONT, LEFT SIDE	21793	456008-002
{11}1	456009-001	PANEL, FRONT	21793	456009-001
{12}4	456010-001	RAIL, SIDE	21793	456010-001
{13}1	456014	PLATE, CABLE TRAY FRONT	21793	456014
{14}1	456015	PANEL, SIDE, L.H.	21793	456015
{15}1	456016	PANEL, SIDE, R.H.	21793	456016
{16}1	456017	PANEL, CABLE TRAY, REAR	21793	456017
{17}1	456018	PANEL, AIR INLET	21793	456018
{18}1	456020	DIVIDER, AIR FLOW	21793	456020
{20}1	456312	PLATE, AIR METERING	21793	456312
{23}2	456025-001	BRACKET, AIR FILTER, L.H.	21793	456025-001
{24}2	456025-002	BRACKET, AIR FILTER, R.H.	21793	456025-002
{25}1	456311	PANEL, AIR PLATEN	21793	456311
{26}1	456027	PANEL, FAN MOUNTING	21793	456027
{27}1	456028	PLATE, FILLER, TOP	21793	456028
{28}1	456029	PANEL, FRONT, LOWER	21793	456029
{29}1	456039	OVERLAY, FRONT PANEL	21793	456039
{30}4	921054	RECESSED BUMPER	6T698	101-BN-1026
{31}26	611317	CARD GUIDE, 160MM	16654	BVX1C-026
{32}26	611173	RIVET, .125 X .337L	05693	AAP-43
{33}2	921256	INLET, RING, IMPELLER	62292	9566-2-4013
{34}2	921261	FILTER, AIR, 6 X 6.75 XA	21793	921261
{35}12	618109	SCREW, PPH, 6-20 X .312, TAPPING, TYPE B	-	-
{36}32	618112	SCREW, PPH, 6-20 X .500, TAPPING, TYPE B	-	-
{37}24	618102	SCREW, PPH 4-20 X .312, TAPPING, TYPE B	-	-
{38}8	615557	SCREW, PFH, 6-32 X .312	-	-
{39}21	616256	SCREW, PPH, SEMS ASSY, 6-32X.375	78189	SEMS W/SQ CONE WA.
{40}4	616255	SCREW, PPH, SEMS ASSY, 6-32X.312	78189	SEMS W/SQ CONE WA.
{41}1	456003-002	RAIL, CARDGUIDE MOUNTING CENTER	21793	456003-002
{42}13	456272	CARDGUIDE, SKIRTED	21793	456272
{43}4	615059	SCREW, PPH, 6-32 X .375	-	-
{44}4	610873	WASHER, FLAT, #6 SS, MS NA5620-C6L	-	-
{45}3	611328	SCREW, PPH, 6-32 X .375	12324	PS6C6DS27GY
{46}4	617005	NUT, HEX, 6-32	-	-
{47}4	617103	WASHER, FLAT, LIGHT, #6	-	-
{48}4	617128	WASHER, LOCK, #6, LIGHT SERIES	-	-
{49}11	618108	SCREW, PPH, 6-20 X .250, TAPPING, TYPE B	-	-
{50}2	610389	GROMMET, CATERPILLAR	03296	G51H-B
{51}1	610241	GROMMET, RING	21793	610241
{52}12	610388	GROMMET, CATERPILLAR, .040 THICK	03296	G51H-A
{53}12	920927	BUMPER, ADHESIVE BACK	53387	SJ-5003BUMPON
{54}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{55}1	456279	STRIP, CARDGUIDE MOUNTING	21793	456279
{56}A/R	920008	LOCTITE	05972	495-50
{57}1	921283	LABEL, SLOT, I.D.	21793	921283

401916-001 - PCBA, VXI BACKPLANE, W/O DIP SWITCHES

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
C1-C7	100133	CAP, CERAMIC, 1UF, LOW PROFILE, 20PCT	72982	8131LP-100-Z5U-1
C8-C12	110126	CAP, TANTA, 6.8UF, 35V, 20 PERCENT	05397	T355F685M035A5
C13-C24	100133	CAP, CERAMIC, 1UF, LOW PROFILE, 20PCT	72982	8131LP-100-Z5U-1
C25	110126	CAP, TANTA, 6.8UF, 35V, 20 PERCENT	05397	T355F685M035A5
C26	110126	CAP, TANTA, 6.8UF, 35V, 20 PERCENT	05397	T355F685M035A5
C27	100133	CAP, CERAMIC, 1UF, LOW PROFILE, 20PCT	72982	8131LP-100-Z5U-1
C28	110126	CAP, TANTA, 6.8UF, 35V, 20 PERCENT	05397	T355F685M035A5
C29-C33	100133	CAP, CERAMIC, 1UF, LOW PROFILE, 20PCT	72982	8131LP-100-Z5U-1
CR1-CR6	P304000005	DIODE	04713	IN4002
Q1	200298	TRANSISTOR, NPN	04713	2N3904
Q2	200298	TRANSISTOR, NPN	04713	2N3904
R1	000510	RES, CARB COMP, 51 OHM, 5 PERCENT, 1/4W	81349	RC07GF510J
R2	000510	RES, CARB COMP, 51 OHM, 5 PERCENT, 1/4W	81349	RC07GF510J
R3	010921	RES, METAL FILM, 825 OHM, 1/8W,1PCT	81349	RN55C8250F
R4	000102	RES, CARB COMP, 1K, 5 PERCENT, 1/4W	81349	RC07GF102J
R5	010308	RES, METAL, 49.9 OHM, 1/4W, 1PCT	81349	RN60D6811F
R6	000102	RES, CARB COMP, 1K, 5 PERCENT, 1/4W	81349	RC07GF102J
R7	000510	RES, CARB COMP, 51 OHM, 5 PERCENT, 1/4W	81349	RC07GF510J
R8	000510	RES, CARB COMP, 51 OHM, 5 PERCENT, 1/4W	81349	RC07GF510J
R9	000510	RES, CARB COMP, 51 OHM, 5 PERCENT, 1/4W	81349	RC07GF510J
R10	000510	RES, CARB COMP, 51 OHM, 5 PERCENT, 1/4W	81349	RC07GF510J
R11	010308	RES, METAL, 49.9 OHM, 1/4W, 1PCT	81349	RN60D6811F
R12	000471	RES, CARBON,470 OHM,1/4W,5 PERCENT	81349	RC07GF471J
R13	000682	RES,CARBON,6.8K,1/4W,5 PERCENT	81349	RC07GF682J
R14	000432	RES, CARBON, 4.3K, 1/4W, 5PCT	81349	RC07GF432J
U1	231149	IC, QUAD OR GATE	04713	MC10H101P
U2	231149	IC, QUAD OR GATE	04713	MC10H101P
U3	231149	IC, QUAD OR GATE	04713	MC10H101P
Z1-Z28	080090	RES NTWK, 10P-S1P, 330/470 OHM, 5 PCT, 1.7W	91637	CSC10A-05-331/471J
{16}1	411916-001	PCB, VXI BACKPLANE W/O DIP SW (UNLOADED)	21793	411916-001

404981 PCB ASSY., PWR. MON. 1261/62

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
C1	110143	CAP, TANTA, 1 UF, 35V, 20 PERCENT	05397	T355A105M035AS
C2	100133	CAP, CERAMIC, 1UF, LOW PROFILE, 20PCT	72982	8131LP-100-Z5U-1
C3	100133	CAP, CERAMIC, 1UF, LOW PROFILE, 20PCT	72982	8131LP-100-Z5U-1
C4	110129	CAP TANTA, .1UF, 35V, 20PCT	05397	T355A104M035AS
C5	100133	CAP, CERAMIC, 1UF, LOW PROFILE, 20PCT	72982	8131LP-100-Z5U-1
C6	110143	CAP, TANTA, 1 UF, 35V, 20 PERCENT	05397	T355A105M035AS
CR1	211083	DIODE, SILICON	81349	1N916B
CR2	211083	DIODE, SILICON	81349	1N916B
J1	601208-020	CONNECTOR, PCB PLUG, 6-PIN	52072	CAS06SP100230430
J2	601208-016	CONNECTOR, PCB, PLUG, 3-PIN	52072	CA-S03-23B-43
J3	601208-021	CONNECTOR, PCB PLUG, 7-PIN	52072	CAS07SP100230430
J4	601208-016	CONNECTOR, PCB, PLUG, 3-PIN	52072	CA-S03-23B-43
Q2-Q7	200298	TRANSISTOR, NPN	04713	2N3904
R1	000224	RES, CARBON,220K,1/4W,5 PERCENT	81349	RC07GF224J
R2	000224	RES, CARBON,220K,1/4W,5 PERCENT	81349	RC07GF224J
R3	000271	RES, CARB COMP, 270 OHM, 5 PERCENT, 1/4W	81349	RC07GF271J
R4	000203	RES, CARBON, 20K, 1/4W, 5PCT	81349	RC07GF203J
R5	000102	RES, CARB COMP, 1K, 5 PERCENT, 1/4W	81349	RC07GF102J
R6	000271	RES, CARB COMP, 270 OHM, 5 PERCENT, 1/4W	81349	RC07GF271J
R7	000102	RES, CARB COMP, 1K, 5 PERCENT, 1/4W	81349	RC07GF102J
R8	000103	RES, CARB COMP, 10K, 5 PERCENT, 1/4W	81349	RC07GF103J
R9	000103	RES, CARB COMP, 10K, 5 PERCENT, 1/4W	81349	RC07GF103J
R10	000301	RES, CARBON, 300 OHM, 1/4W, 5PCT	81349	RC07GF301J
R11	001472	RES, CARBON, 10 OHM, 5 PERCENT, 1/4W	81349	RC07GF100J
R12	010169	RES, METAL FILM, 100K, 1/4W, 1PCT	81349	RN60D1003F
R13	000224	RES, CARBON,220K,1/4W,5 PERCENT	81349	RC07GF224J
R14	001472	RES, CARBON, 10 OHM, 5 PERCENT, 1/4W	81349	RC07GF100J
R15	010431	RES, METAL FILM, 511K, 1 PERCENT, 1/4W	81349	RN60D5113F
R16	000224	RES, CARBON,220K,1/4W,5 PERCENT	81349	RC07GF224J
R17	000332	RES, CARB COMP, 3.3K, 5 PERCENT, 1/4W	81349	RC07GF332J
R18	000103	RES, CARB COMP, 10K, 5 PERCENT, 1/4W	81349	RC07GF103J
R19	000103	RES, CARB COMP, 10K, 5 PERCENT, 1/4W	81349	RC07GF103J
TP1-TP3	601197	POST, TEST, .025 SQ	00779	6-87022-6
U1	230547	IC, QUAD COMPARATOR	27014	LM339N/A-1
U2	230547	IC, QUAD COMPARATOR	27014	LM339N/A-1
VR1	230551	IC, VOLTAGE REFERENCE	24355	AD589JH
Z1	080123	RES NETWORK, 3.3K, 16P8R	11236	761.3-R3.3K
Z2	080005	RES NETWORK, 6P8R, 10K, 2 PERCENT, .9W	11236	750-61-R10K
{35}1	410799	PCB POWER MONITOR (UNLOADED)	21793	410799
{38}1	600245	JUMPER, INSULATED	52210	L-2007-1
{46}1	920927	BUMPER, ADHESIVE BACK	53387	SJ-5003BUMPON

407045 - OPTION 14A, FRONT DOOR 1261A

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{7}4	611322	NUT, CAP, 8-32, BLK, NYLON	73439	113826-N-2
{2}2	456041	HINGE, DOOR MOUNTING	21793	456041
{3}1	456043	BRACKET, LATCH RETAINER	21793	456043
{4}1	456044	DOOR, FRONT	21793	456044
{6}4	611321	SCREW, BUTTON, 8-32X.375	39428	91255A192
{8}4	618109	SCREW, PPH, 6-20 X .312, TAPPING, TYPE B	-	-
{10}1	921160	LATCH, DOOR, BLK NYLON	94222	A34062512

407098,-001-007 - OPT.P. INTELLIGENT SYS MONITOR

REF DESIG	RACAL-INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
P1	602094-012	CONNECTOR HOUSING,CABLE RECEPT,2 ROW,12 PIN	22526	65043-031
P2	601436	CONNECTOR, FLAT CABLE, 20-PIN	08261	842-812-2022-418
P3-P5	602094-004	CONNECTOR HOUSING, 4 PIN	22526	65043-35
P6	602094-006	CONNECTOR HOUSING, CABLE, CRIMP, 6 PIN	22526	65043-034
S102	602119	SWITCH, DPDT, PUSHBUTTON	09353	8261-J81-ZGE-22
S103	602111	SWITCH, SPDT, PUSHBUTTON, MOMENTARY	09353	8121-J81-Z-BE22
{1}1	001759	RES, CARBON, 5.1 OHM, 1/4 W, 5 PCT	81349	RC07GF5R1J
{4}1	210136	DISPLAY, LCD, 16X1, W/LED BACKLTE	FEMAE	161F-T6S1W
{5}1	405061	PCB ASSY., SYSTEM MONITOR	21793	456061
{7}1	456063	PANEL, FRONT, OPT. P	21793	456063
{8}1	456064	OVERLAY, OPT. P	21793	456064
{9}2	456068	BRACKET, DISPLAY MOUNTING	21793	456068
{10}1	456104	SHIELD, POWER SUPPLY, MYLAR	21793	456104
{11}A/R	500009	TUBING, SHRINK,. 12 ID, BLK	29005	RNF-100-1-1/8
{12}A/R	500204	WIRE, TEFLON, SOLID, 28 GA, WHT	04946	1100-32-C-9
{13}A/R	523000	WIRE, TEFLON STRANDED, 22 GA, BLK	92194	5855/7-BLK
{14}A/R	523222	WIRE, TEFLON STRANDED, 22 GA, RED	92194	5855/7-RED
{15}A/R	523333	WIRE, TEFLON STRANDED, 22 GA, ORG	92194	5855/7-ORG
{16}A/R	523444	WIRE, TEFLON STRANDED, 22 GA, YEL	92194	5855/7-YEL
{17}A/R	523777	WIRE, TEFLON STRANDED, 22 GA, VIO	92194	5855/7-VIO
{18}A/R	523888	WIRE, TEFLON STRANDED, 22 GA, GRY	92194	5855/7-GRY
{19}A/R	523999	WIRE, TEFLON STRANDED, 22 GA, WHT	92194	5855/7-WHT
{21}A/R	522111	WIRE, TEFLON STRANDED, 18 GA, BRN	92194	5857-BRN
{22}A/R	522666	WIRE, TEFLON STRANDED, 18 GA, BLU	92194	5857-BLU
{23}A/R	523919	WIRE, TEFLON STRANDED, 22 GA, WHT/BRN	92194	5855/7-WHT/BRN
{25}A/R	524912	WIRE, TEFLON STRANDED, 24 GA, WHT/BRN/RED	-	-
{26}A/R	524928	WIRE, TEFLON STRANDED, 24 GA, WHT/RED/GRY	-	-
{27}A/R	524914	WIRE, TEFLON STRANDED, 24 GA, WHT/BRN/YEL	-	-
{28}A/R	524915	WIRE, TEFLON STRANDED, 24 GA, WHT/BRN/GRN	-	-
{29}A/R	524924	WIRE, TEFLON STRANDED, 24 GA, WHT/RED/YEL	-	-
{30}A/R	524916	WIRE, TEFLON STRANDED, 24,GA, WHT/BRN/BLU	-	-
{31}A/R	524917	WIRE, TEFLON STRANDED, 24 GA, WHT/BRN/VIO	-	-
{33}8	600961	CLIP, CABLE, ADHESIVE MOUNT	06383	ACC19-A-C
{34}1	601208-002	CONNECTOR, PCB, PLUG, 14 PIN	55322	TSW-114-07-G-S
{36}9	601440	TERMINAL, CRIMP, NYLON INSULATED	58730	RA2213
{42}1	602193-014	CONNECTOR HOUSING, CABLE, 14 PIN	22526	65039-023
{43}A/R	601780	CABLE, MULTICONDUCTOR, RIBBON, 20 GA	70903	9V28020
{44}4	602126	TERMINAL, CRIMP, FEMALE	27264	08-70-1030
{45}1	602127	CONNECTOR, PCB, RECEPT, 6 POS	27264	09-50-1061
{46}1	602110	SENSOR, AIRFLOW	93929	SAF-1005075
{48}1	602128	CONNECTOR, PCB, RECEPT, 3 POS	27264	09-50-1033
{50}2	610241	GROMMET, RING	21793	610241
{51}A/R	610777	CABLE TIE	16956	08-432
{52}10	610912	CLIP, CABLE, FLAT	34785	031-0100
{53}6	602094-900	POLARIZATION PLUG	22526	65307-001
{54}35	611311	TERMINAL, CRIMP	22526	48251-000
{55}4	615042	SCREW, PPH, 4-40X.250	-	-
{56}2	615015	SCREW, PPH, 2-56X.312	-	-
{57}2	615059	SCREW, PPH, 6-32 X .375	-	-
{59}2	616253	SCREW, PPH, SEMS ASSY, 4-40 X .375	78189	SEMS W/SQ CONE WA.
{60}8	616255	SCREW, PPH, SEMS ASSY, 6-32X.312	78189	SEMS W/SQ CONE WA.
{62}4	617017	NUT, HEX, 6-32	-	-
{63}2	617101	WASHER, FLAT, LIGHT SERIES, #2	-	-
{64}2	617103	WASHER, FLAT, LIGHT, #6	-	-
{65}2	617126	WASHER, LOCK, #2, LIGHT SERIES	-	-
{66}4	617127	WASHER, LOCK, #4, LIGHT SERIES	-	-
{67}2	617128	WASHER, LOCK, #6, LIGHT SERIES	-	-
{68}1	921274	BUZZER, PIEZO, DC	54583	PB2130UL100A
{69}1	920729	LABEL, WARNING	21793	920729
{77}1	921282	POWER SUPPLY, +5V, +/-12V, 30W	SKYNT	SNP-9031
{78}A/R	920782	TAPE, TRANSPARENT	34359	850

405061 - PCB ASSY., SYSTEM MONITOR

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
C1-14	100152-103	CAP, CHIP, 10NF, 50V, 10PCT	95275	VJ0805Y102KXAAT
C15-24	R-21-1802	CAP, CHIP, 100 NF	95275	VJ1206Y104MF
C25-32	100152-103	CAP, CHIP, 10NF, 50V, 10PCT	95275	VJ0805Y102KXAAT
C33-51	R-21-1802	CAP, CHIP, 100 NF	95275	VJ1206Y104MF
C52-67	100152-103	CAP, CHIP, 10NF, 50V, 10PCT	95275	VJ0805Y103KXAAT
C68-69	130186	CAP, TANTA, SMD, 10MF, 16V, 10 PCT	04222	TAJC106K016R
CR1	210120	DIODE, LIGHT EMITTING, RED	91802	5350T1LC
CR2	210115	DIODE, HIGH SPEED SWITCHING	04713	MMBD914(TA)
J1	601583-012	CONNECTOR, PCB, PLUG, 12-PIN	55322	TSW-106-08-G-D
J2	601291	CONNECTOR, DBL ROW, 20-PIN	52072	CA-D20-23B-43
J3-5	601583-004	CONNECTOR, PCB, PLUG, 4-PIN	55322	TSW-102-08-G-D
J6	601583-006	CONNECTOR, PCB, PLUG, 6-PIN	55322	TSW-10308-G-D
J401	601582	CONNECTOR, RECEPT, 24-PIN	00779	553811-4
R1-2	050000-102	RES, CHIP, 1K, .06W, 5PCT	91637	CRCW-0805SERIES
R3	050037-014	RES, CHIP, 953 OHM, 1/8W, 1PCT	65940	MCR18EZHFX9530
R4	040328	POT, TOP ADJ. MULTI-TURN, 100 OHM	80294	3266W-1-101
R5	050009	RES, CHIP, 1K, .06W, 1PCT	91637	CRCW08051001F
R6	050061	RES, CHIP, 6.8 KOHM, .06W, 1PCT	91637	CRCW08056811F
R7	050037-016	RES, CHIP, 8.66K, 1/8W, 1PCT	65940	MCR18EZHFX8661
R8	050037-014	RES, CHIP, 953 OHM, 1/8W, 1PCT	65940	MCR18EZHFX9530
R9	040328	POT, TOP ADJ, MULTI-TURN, 100 OHM	80294	3266W-1-101
R10	050009	RES, CHIP, 1K, .06W, 1PCT	91637	CRCW08051001F
R11	050061	RES, CHIP, 6.8 KOHM, .06W, 1PCT	91637	CRCW08056811F
R12-13	050037-016	RES, CHIP, 8.66K, 1/8W, 1PCT	65940	MCR18EZHFX8661
R14	050037-017	RES, CHIP, 20K, 1/8W, 1PCT	65940	MCR18EZHFX2002
R15-24	050037-015	RES, CHIP, 2K, 1/8W, 1PCT	65940	MCR18EZHFX2001
R25	050037-017	RES, CHIP, 20K, 1/8W, 1PCT	65940	MCR18EZHFX2002
R26	050037-016	RES, CHIP, 8.66K, 1/8W, 1PCT	65940	MCR18EZHFX8661
R27	050037-015	RES, CHIP, 2K, 1/8W, 1PCT	65940	MCR18EZHFX2001
R28	050037-001	RES, CHIP, 1.3K, 1/8W, 1PCT	65940	MCR181.30KF
R29	R-20-5785	RES, CHIP, 220 OHM 1/8W, 5PCT, 200V	65940	MCR18-220 OHM-5 PCT
R30	R-20-5792	RES, CHIP, 1K, 1/8W, 5PCT, 200V	65940	MCR18-1K-5 PCT
R31-32	050037-015	RES, CHIP, 2K, 1/8W, 1PCT	65940	MCR18EZHFX2001
R33-34	050037-006	RES, CHIP, 475 OHM, 1/8W, 1PCT	65940	MCR18EZHFZ4750
R35	050037-014	RES, CHIP, 953 OHM, 1/8W, 1PCT	65940	MCR18EZHFX9530
R36	050037-006	RES, CHIP, 475 OHM, 1/8W, 1PCT	65940	MCR18EZHFZ4750
R37	050037-015	RES, CHIP, 2K, 1/8W, 1PCT	65940	MCR18EZHFX2001
R38	050037-001	RES, CHIP, 1.3K, 1/8W, 1PCT	65940	MCR181.30KF
R39	050037-015	RES, CHIP, 2K, 1/8W, 1PCT	65940	MCR18EZHFX2001
R40	050009	RES, CHIP, 1K, .06W, 1PCT	91637	CRCW08051001F
R41	050062	RES, CHIP, 10K OHM, .06W, 1PCT	91637	CRCW08051002F
R42	050037-015	RES, CHIP, 2K, 1/8W, 1PCT	65940	MCR18EZHFX2001
R43	050000-103	RES, CHIP, 10K, .06W, 5PCT	91637	CRCW08051002J
R44	040197	POT, CERMET, 10K, 20PCT	32997	338DR-1-103
R45-46	050000-102	RES, CHIP, 1K, .06W, 5PCT	91637	CRCW-0805SERIES
R47	050000-103	RES, CHIP, 10K, .06W, 5PCT	91637	CRCW08051002J
R48-49	050000-102	RES, CHIP, 1K, .06W, 5PCT	91637	CRCW-0805SERIES
R50	050037-015	RES, CHIP, 2K, 1/8W, 1PCT	65940	MCR18EZHFX2001
R51	050000-102	RES, CHIP, 1K, .06W, 5PCT	91637	CRCW-0805SERIES
R52	050040	RES, CHIP, 6.04K, 1/8W, 1PCT	65940	MCR186.04KFW
R53-54	050037-006	RES, CHIP, 475 OHM, 1/8W, 1PCT	65940	MCR18EZHFZ4750
R55	050040	RES, CHIP, 6.04K, 1/8W, 1PCT	65940	MCR186.04KFW
R56-57	050037-003	RES, CHIP, 301 OHM, 1/8W, 1PCT	65940	MCR18EZHFX3010
R58	050037-005	RES, CHIP, 150 OHM, 1/8W, 1PCT	65940	MCR18EZHFZ1500
S401	600814	SWITCH, SLIDE, 6SPST	02660	31-010
TP1-19	600786	POST, TERMINAL, MACHINE APPLIED STRIP	00779	1-87022-0
TS1	921276	SENSOR, TEMPERATURE, 75C	50157	MTS-075-B
U1	230459	IC, OCTAL GPIB TRANS	01295	SN75160AN3
U2	230472	IC, OCTAL GPIB TRANS	01295	SN75161AN3
U9	230793	IC, GPIB CONTROLLER	01295	TMS9914ANL
U13	231236	IC, DIGITAL BUFFER SCIC	04713	MC74HCT244DW

405061 - PCB ASSY., SYSTEM MONITOR

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
U14	230821	IC, CPU, CMOS, 64K EXT MEMORY	18714	CD6805E33X
U15	231457	IC, MEMORY	21793	231457
U16	231232	IC, DIGITAL, TRANSPARENT LATCHES	27014	DM74ALS373WM
U17	231094	IC, DEMUX DECODER	18324	N74LS138D
U18	231387	IC, HEX INVERTER	27014	DM74LS14M
U19	231390	IC, QUAD 2-INPUT OR	27014	DM74LS32M
U20-21	231093	IC, QUAD COMPARATOR	04713	LM339D
U22-23	231219	IC, LINEAR, VREF	27014	LM385BYZ
U24-31	231448	IC, LINEAR, SOIC, COMP	01295	LM311D
U32-34	231236	IC, DIGITAL BUFFER SCIC	04713	MC74HCT244DW
U35	231187	IC, OCTAL BUS TRANCVRS	01295	SN74ALS245A-1DW
U38	230972	IC,DUAL D-TYPE POS EDGE-TRIG F-F	07263	74F74SC
U39	231253	IC, LINEAR, SUPPLY VOLT SUPR	01295	TL7705ACP
Y1	921005	OSCILLATOR, CLOCK, 8 MHZ, 0.1 PCT	04713	RASCO-1
Z1-2	080105	RES, NETWORK, 3.3K, .75W, .05 PERCENT	91637	50MC-1601-332J
{74}1	415061	PCB, SYSTEM MONITOR (UNLOADED)	21793	415061
{80}1	601631	SOCKET, IC, 28-PIN DIP, LOW PROFILE	00779	641615-2
{82}1	601249	CONNECTOR, DIP, RIGHT ANGLE, 14-PIN	52072	CA-14SE-10RAC3-01
{91}2	616253	SCREW, PPH, SEMS ASSY, 4-40 X .375	78189	---
{93}1	630010	HARDWARE KIT, STANDOFF, STUD MOUNT	00779	552633-3
{97}A/R	921279	LOCQUIC, PRIMER	05972	74756
{98}A/R	921280	LOCTITE, HIGH STRENGTH	05972	27121

407162 - ASFP BLANK FRONT PANEL

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}2	456043	BRACKET, LATCH RETAINER	21793	456043
{3}1	456116	PANEL, ASFP/1261A	21793	456116
{5}4	616256	SCREW, PPH, SEMS ASSY, 6-32X.375	78189	SEMS W/SQ CONE WA.

407244 - ASFP-1, 1.5" RAISED FRONT PANEL

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}2	456043	BRACKET, LATCH RETAINER	21793	456043
{3}1	456273-015	PANEL ASSY, DEEP, ASFP 1261A	21793	456273-015
{5}4	616256	SCREW, PPH, SEMS ASSY, 6-32X.375	78189	SEMS W/SQ CONE WA.

407365 - ASFP-2, 1.5IN W/SMOKE WINDOW

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}2	456043	BRACKET, LATCH RETAINER	21793	456043
{3}1	456327-015	PANEL, ASFP-2 ASSY, W/WINDOW	21793	456327-015
{5}4	616256	SCREW, PPH, SEMS ASSY, 6-32X.375	78189	SEMS W/SQ CONE WA.

RACAL Instruments Inc. *4 Goodyear Street, Irvine, California 92718-2202*

REPAIR AND CALIBRATION REQUEST FORM

To allow us to better understand your repair requests, we suggest you use the following outline when calling and include a copy with your instrument to be sent to the Racal Repair Facility.

Model No._____ Serial No._____ Date_____

Company Name_____ P.O.No._____

Billing Address_____
City State Zip

Shipping Address_____
City State Zip

Technical Contact_____ Phone Number ( )_____

Purchasing Contact_____ Phone Number ( )_____

1. Describe, in detail, the problem and symptoms you are having. Please include all set up details, such as input/output levels, frequencies, waveform details, etc.

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2. If problem is occurring when unit is in remote, please list the program strings used and the controller type.

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3. Please give any additional information you feel would be beneficial in facilitating a faster repair time (i.e., modifications, etc.)

_____

_____

_____

4. Is calibration data required? Yes No (please circle one)

Call <u>before</u> shipping:

Customer Service
(800) 722-3262

Ship instrument to:

Customer Service Department
Racal Instruments Inc.
4 Goodyear Street
Irvine, CA 92718

<u>Note</u>: We do not accept "collect" shipments.

MP MASTER
MA31077